1948.

VICTORIA.

STATE ELECTRICITY COMMISSION OF VICTORIA.

TWENTY-NINTH ANNUAL REPORT

COVERING THE

FINANCIAL YEAR ENDED 30TH JUNE, 1948,

TOGETHER WITH

APPENDICES.

PRESENTED TO PARLIAMENT PURSUANT TO SECTION 35 (*b*) OF STATE ELECTRICITY COMMISSION ACT No. 3776.

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DEVELOPMENT OF VICTORIA'S HYDRO-ELECTRIC RESOURCES

KIEWA SCHEME

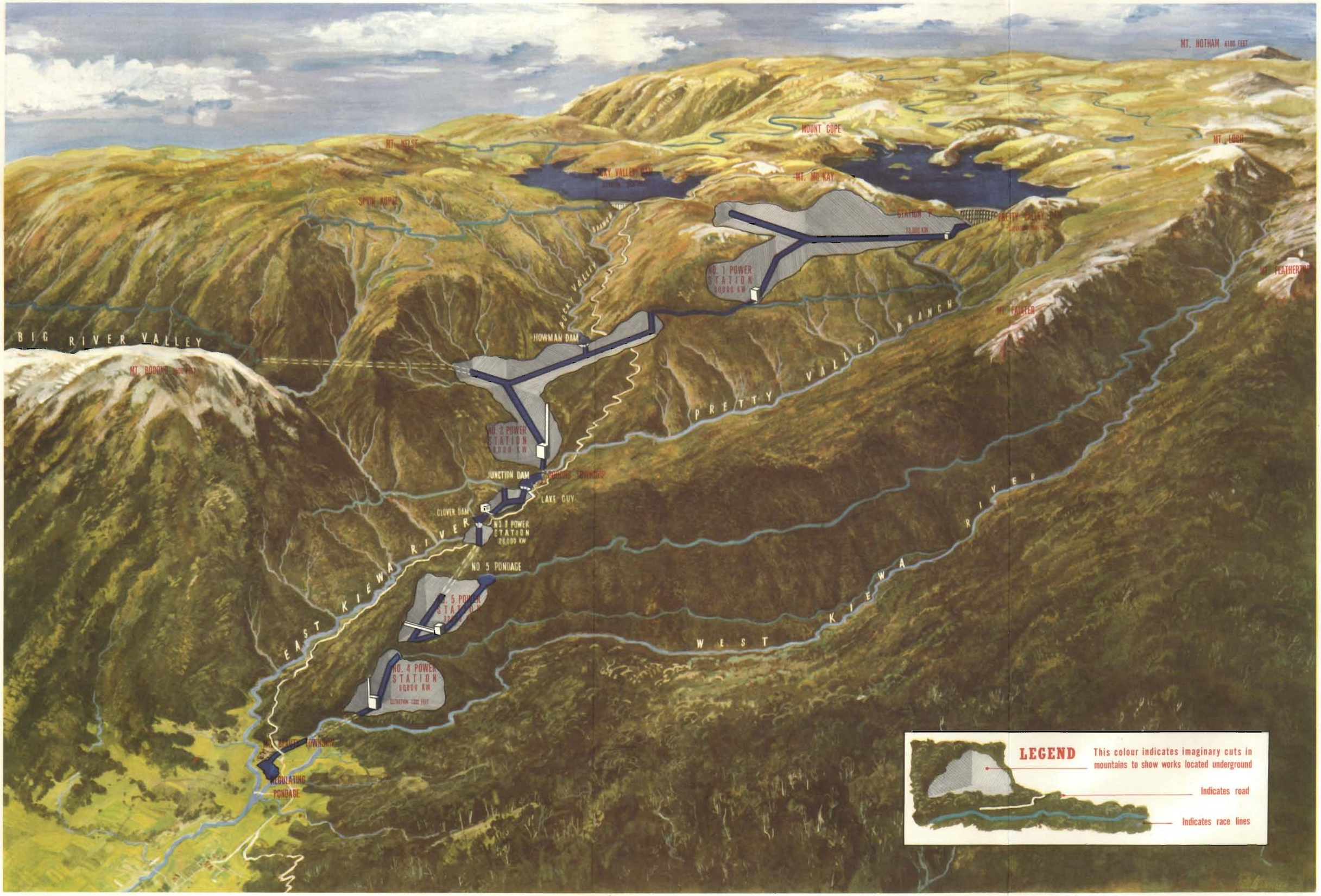


TABLE OF CONTENTS.

STATE ELECTRICITY COMMISSION OF VICTORIA.

FEATURES OF YEAR'S OPERATIONS.

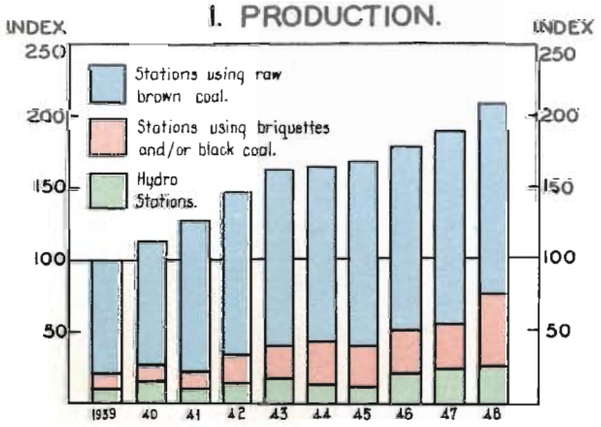
—		1947–48.	1946–47.	Increase or Decrease.	Percentage.
FINANCIAL.					
REVENUE—					
Electricity Supply	£	6,543,089	5,835,194	+ 707,895	+ 12·1
Briquetting (after Stock Adjustment and less Sales to Works)	£	325,181	321,711	+ 3,470	+ 1·1
Brown Coal	£	102,003	67,767	+ 34,236	+ 50·5
Tramways	£	143,878	142,281	+ 1,597	+ 1·1
Miscellaneous	£	33,338	32,561	+ 777	+ 2·4
	£	7,147,489	6,399,514	+ 747,975	+ 11·7
EXPENDITURE	£	7,360,561	6,150,326	+ 1,210,235	+ 19·7
PROFIT	£	..	249,188	..	..
LOSS	£	213,072	..	..	..
TRANSFERS TO RESERVES, &c.	£	..	213,783	..	..
		213,072	35,405	..	..
TRANSFERS FROM RESERVES	£	243,000	54,000	..	..
NET SURPLUS	£	29,928	89,405	..	..
ACCUMULATED PROFIT—At end of Year	£	371,731	341,803	+ 29,928	+ 8·8
CAPITAL EXPENDITURE—At end of Year	£	40,523,149	36,460,148	+ 4,063,001	+ 11·1
RESERVES—At end of Year	£	16,566,022	15,686,004	+ 880,018	+ 5·6
ELECTRICITY PRODUCTION AND SALES.					
MAXIMUM COINCIDENT DEMAND ON GENERATING STATIONS (This Year—June 22nd)	kW	449,500	364,750	+ 84,750	+ 23·2
ELECTRICITY GENERATED	kWh—millions	1,904·4	1,691·0	+ 213·4	+ 12·6
ELECTRICITY SALES	kWh—millions	1,521·5	1,344·1	+ 177·4	+ 13·2
NUMBER OF CONSUMERS (excluding Bulk Supplies)		355,258	339,286	+ 15,972	+ 4·7
AVERAGE kWh SOLD PER CONSUMER—					
Domestic		1,151	1,015	+ 136	+ 13·4
Industrial		37,498	38,330	— 832	— 2·2
Commercial		3,132	2,769	+ 363	+ 13·1
All Consumers (excluding Bulk Supplies)		2,915	2,696	+ 219	+ 8·1
AVERAGE PRICE PER kWh SOLD—					
Domestic	d.	1·506	1·606	— 0·100	— 6·2
Industrial	d.	0·852	0·846	+ 0·006	+ 0·7
Commercial	d.	1·905	1·900	+ 0·005	+ 0·3
All Consumers (excluding Bulk Supplies)	d.	1·221	1·238	— 0·017	— 1·4
NUMBER OF FARMS SERVED		13,181	11,680	+ 1,501 (including adjustment + 161 farms)	+ 12·9
MOTORS CONNECTED—					
Number		84,361	77,735	+ 6,626	+ 8·5
Horse-power		481,408	454,901	+ 26,507	+ 5·8
BRIQUETTES—					
Produced	tons	545,236	490,338	+ 54,898	+ 11·2
Sold	tons	536,802	459,322	+ 77,480	+ 16·9
BROWN COAL—					
Sales to Industry	tons	194,289	129,640	+ 64,649	+ 49·9
TRAMWAY PASSENGERS		15,852,942	15,682,861	+ 170,081	+ 1·1

TEN YEAR STATISTICAL REVIEW

BASE YEAR 1938/9 = 100.

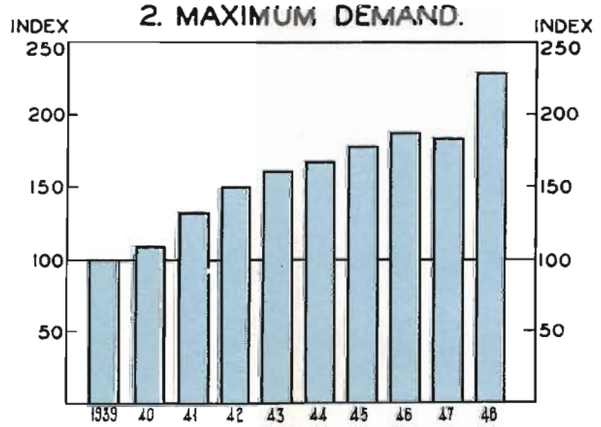
Statistics during the past three financial years have been affected by restrictions on the use of electricity consequent on strikes and the general shortage of fuel.

1. PRODUCTION.



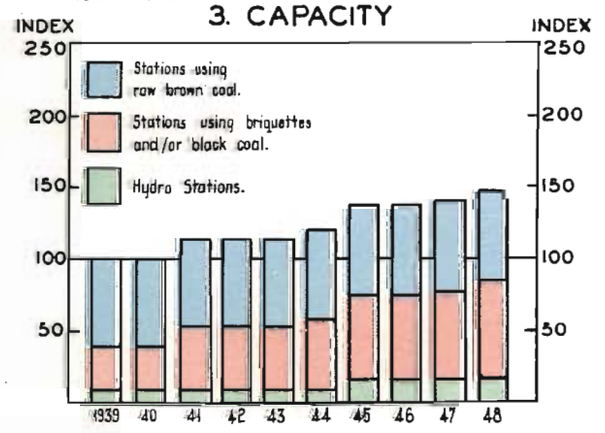
Production of Electricity (1904 million kwh's in 1947/8) has more than doubled over the decade.

2. MAXIMUM DEMAND.



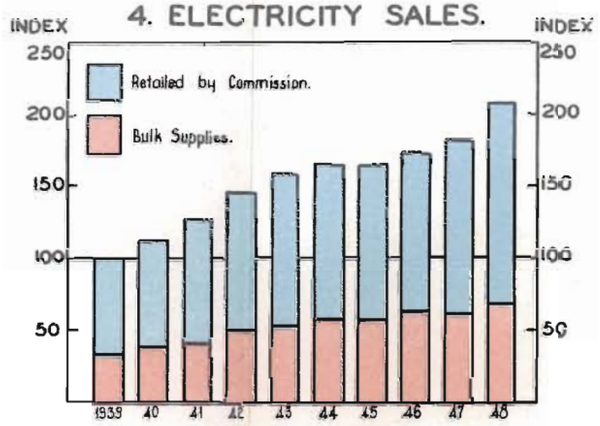
Maximum Demand has more than doubled since 1939. The figure for 1947/48 (449,500 kw.) was considerably higher than last year when substantial restrictions on the use of electricity were in force.

3. CAPACITY



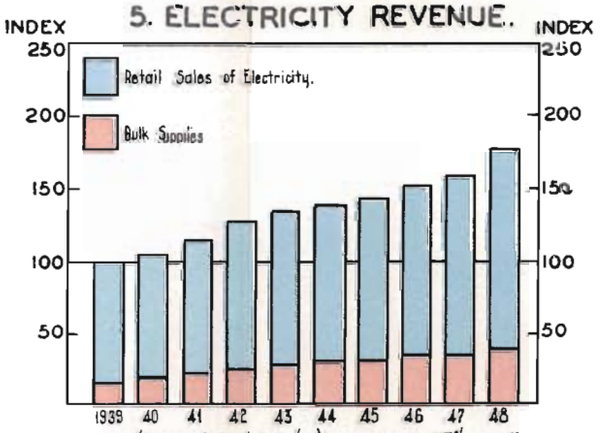
Installed capacity of generators (443,652 kw. at 30/6/48.) includes 30,000 kw. installed during the year.

4. ELECTRICITY SALES.



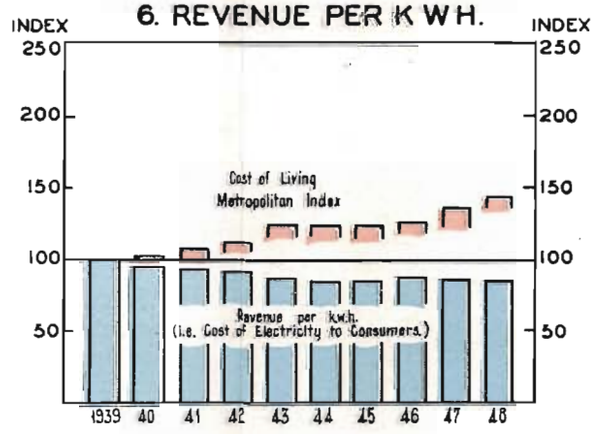
Sales (1521·5 million kwhs. in 1947/8) increased last year by 13% – they were not affected by restrictions on the use of electricity to the same extent as the two previous years.

5. ELECTRICITY REVENUE.



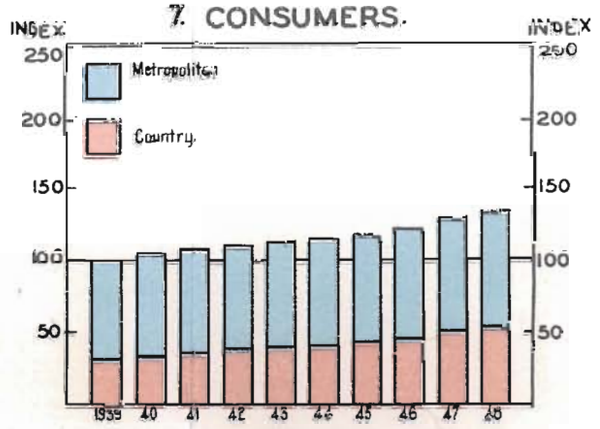
Revenue (£6·5 million in 1947/48) increased by 77% over the decade compared with an increase of 108% in sales. Tariffs ensure that the charge per kwh. decreases as consumption increases.

6. REVENUE PER K W H.



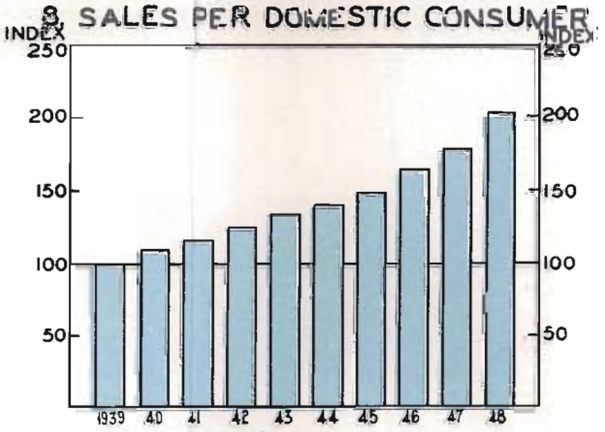
Revenue per kwh. has dropped steadily in marked contrast to the general cost of living.

7. CONSUMERS.



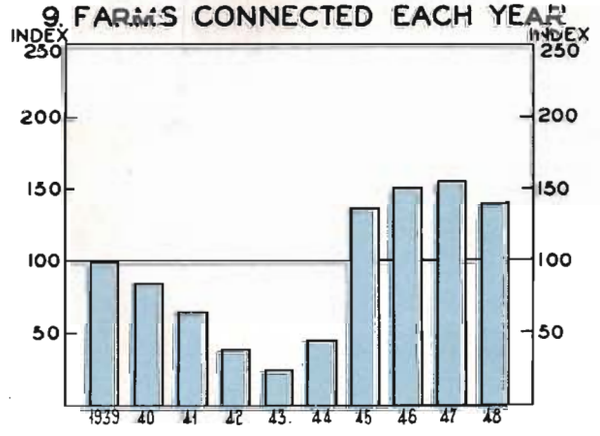
The number of consumers (355,258 at 30/6/48) has increased steadily. In this decade country consumers have almost doubled.

8. SALES PER DOMESTIC CONSUMER



Since 1939 the consumption per domestic consumer has increased from 566 kwhs. to 1151. The increment this year (136 kwhs per consumer) is the largest yet recorded.

9. FARMS CONNECTED EACH YEAR



For the past three years 4248 farms were connected, compared with 2397 for the three years proir to the war. At 30th June 1948 the total farms connected were 13,181.

TWENTY-NINTH ANNUAL REPORT

The Honorable J. H. Lienhop, M.L.C.,
Minister in Charge of Electrical Undertakings,
Melbourne.

SIR,

In conformity with the provisions of Section 35 (*b*) of the State Electricity Commission Act No. 3776, we have the honour to present the Twenty-Ninth Annual Report of the Commission covering the financial year ended 30th June, 1948, together with the Balance-sheet and Profit and Loss Account.

Operating Conditions.—The extremely exacting conditions of last year again prevailed in 1947–48; the aftermath of the prolonged industrial dispute of 1946–47 and the introduction at the beginning of 1948 of the 40-hour week seriously affected operations. Additional labour to conform to the new working conditions was difficult to obtain, particularly for those sections responsible for continuous operations. The effect of these conditions on production by industry was reflected also in acute shortages in materials required by the Commission for essential maintenance. Reference is made later in this report to their effect on the Commission's construction programmes.

Financial.—Although the full impact of the 40-hour week was not felt until the latter half of the year, the resultant additional costs, together with higher wages and material costs, were chiefly responsible for the increased expenditure of £1,210,235 (19·7 per cent.).

The loss of £213,072 on the year's operations was met by transfer of £143,000 from the Deferred Maintenance Reserve and £100,000 from the Rate Stabilization Reserve and tariff increases were thus avoided during the year. However, it was impossible to continue to meet from reserves such substantial rises in costs, and retail electricity supply tariffs were increased as from the 1st July , 1948, for the first time in the history of the Commission (see further reference on page 14). Briquette prices were increased from 1st January, 1948. The consent of the Governor in Council has been sought for increased fares for the tramways systems in Ballarat, Bendigo and Geelong.

Electricity Supply.—The overall increase in sales (177 million kWh) was substantially higher than in any previous year.

Of 15,972 new consumers connected this year, 65 per cent. were in extra-metropolitan areas; 1,340 were farms. Although slightly exceeded last year, the rate of connection is still considerably in advance of pre-war years.

Generating System.—The boiler plant at Newport, reported last year as being seriously delayed by the wide-spread industrial troubles in Victoria, is now in service with the new 30,000 kW turbo-generator (No. 5). Soon after the close of the financial year, the installation of No. 6 turbo-generator (30,000 kW) at Newport was completed, and it is expected that the boilers and associated equipment for this set will be in service for the winter of 1949. No. 7 turbo-generator of the same capacity was planned to have been in service with one boiler for the winter of 1949; the turbo-generator has arrived at the site but the present indications are that the deliveries of boiler and associated plant will be delayed.

The installed generating capacity was sufficient to meet the 1948 winter demands. although on several occasions of adverse weather conditions operations were maintained without reserve capacity.

Fuel Stocks and Electricity Restrictions.—Under present-day conditions of acute shortages of solid fuels for even the most essential requirements, the Commission realizes that the assessment of priorities in the allotment of various types of fuel (including its own product—brown coal briquettes) to users must rest with the State, and it has co-operated to that end. On several occasions, however, the Commission has emphasized that, if it had been permitted to retain the full output of its own briquettes, restrictions on the use of electricity for decorative lighting and space heating from July to September, 1948, would have been avoided.

The fuel position in Victoria will be relieved somewhat as a result of the Commission's experiments in the use of raw brown coal and oil at its Newport Generating Station. This emergency measure will permit the State to continue some allocation of Commission fuel to industry, but the extent to which this may be done without prejudicing electricity generation will depend on the ability of the Victorian Railways to transport brown coal from Yallourn North as required. It must be realized, however, that generating costs will be increased materially if brown coal and oil need to be used extensively.

Brown Coal Development (Morwell Project).—Legislation approving the establishment of a new open cut and briquette factories (capacity—first stage 1,300,000 tons per annum) to the south of Morwell was passed by Parliament on the 13th July, 1948. This project is estimated to cost £18,921,000, and is referred to in more detail on page 9.

Augmented Kiewa Hydro-Electric Project.—The Commission submitted a report to the Government on the 21st November, 1947, recommending that the generating capacity of the Kiewa Project be increased to 289,000 kW. The proposal for the enlarged project, estimated to cost £25,270,000, was adopted by Parliament on the 13th July, 1948, (see frontispiece and page 10.)

Shortages of Construction Materials and Equipment.—Although to the general public the effect of acute shortages of materials is most apparent in regard to the connection of consumers and rural extensions, it also is causing the Commission much concern in relation to all phases of its activities, including major power production developments and normal maintenance.

Rural extensions proceeded to the maximum possible extent of available materials. Suppliers were able to meet only a small part of the Commission's requirements of materials, especially insulators, crossarm timber, poles, transformers and line hardware, and, as a result, the connection of new consumers in all areas, including the metropolitan area, has been considerably retarded. At the instance of the Government, a top priority is being given to farms able to produce most urgently needed foods for Great Britain.

To augment local supplies, overseas markets are being explored and orders placed, although in many instances at much higher cost. The Commission's Electrical Engineer (Mr. E. L. Merigan, B.E.E., M.I.E. Aust.), in collaboration with the Electricity Supply Association of Australia, visited Japan and placed orders on behalf of the Commission for 88,000 insulators. Other officers have visited Manila and procured tractors and earth moving equipment. To ensure interstate deliveries of cement, poles, crossarms, and building timbers, a small coastal steamer (600 tons) was purchased and has been used to ship additional supplies from Tasmania.

ANNUAL ACCOUNTS.

The total revenue for all operations was £7,147,489, an increase for the year of £747,975 (11·7 per cent.).

The revenue, expenditure and result of Electricity Supply, Briquetting, Brown Coal and Tramways Operations were :—

—	Revenue.	Expenditure.	Result.	
			Profit.	Loss.
	£	£	£	£
Electricity Supply	6,543,089	6,158,943	384,146	..
Briquetting	325,181	343,272	..	18,091
Brown Coal	102,003	93,572	8,431	..
Tramways	143,878	222,600	..	78,722
Miscellaneous Revenue	33,338	..	33,338	..
General Charges (Sinking Fund Contributions, Pay Roll Tax, Provident Fund Contributions, &c.) ..	..	542,174	..	542,174
	7,147,489	7,360,561	425,915	638,987

		£
The year's operations thus showed a loss of		213,072
which has been met by transfers from—		
Deferred Maintenance Reserve	143,000	
Rate Stabilization Reserve	100,000	
		243,000
converting the final result to a surplus of		29,928
and bringing the accumulated profit, as at 30th June, 1948, to ..		371,731

The General Profit and Loss Account, Balance-sheet, Schedules of Fixed Capital, Loans raised by the Commission, and Debentures guaranteed by the Commission are shown in Appendices Nos. 1–4.

LOAN LIABILITY.

The total loan liability of the Commission at 30th June, 1948, was £26,990,075.

The commitments involved are :—

	£
Liability to State of Victoria	16,097,164
State Electricity Commission of Victoria Loans	10,871,794
Municipal Debentures in respect of Undertakings acquired ..	21,117
	26,990,075

Loan Liability has increased this year by £3,769,292 :—

		£
(*a*) State Electricity Commission Loans		4,000,000
(*b*) Increase in indebtedness to State in respect of Flotation Expenses on New York Conversion Loan		13,579
		4,013,579
Less—		
(*a*) Reduction of indebtedness to State through National Debt Sinking Fund ..	164,971	
(*b*) Redemption of State Electricity Commission Loans	66,581	
(*c*) Repayment of eleventh instalment on £100,000 borrowed for tramway reconstruction	8,903	
(*d*) Redemption of Municipal Debentures guaranteed by Commission	3,832	
		244,287
		£3,769,292

For the 1948–49 works programme of £6,500,000, the Commission sought approval to the raising by loan of £6,000,000, the remainder of the programme to be met from the Commission's own resources, and this was authorized by the Loan Council.

RESERVES.

The Depreciation and Sinking Fund Reserve at 30th June, 1948, totalled £13,788,323, an increase of £1,141,720 for the year. Of the total, £1,746,637 was to the credit of the Commission in the National Debt Sinking Fund Reserve, £11,541,035 to the credit of the Depreciation Reserve (which, with the exception of £517,514 applied to the National Debt Sinking Fund Reserve, is invested in the business of the Commission), £445,233 to the credit of the State Electricity Commission Sinking Fund Reserve, and £55,418 to the credit of the Commission in the National Recovery Loan Fund Reserve.

CAPITAL EXPENDITURE.

After deduction for retirements and the writing out of non-productive expenditure, the total expenditure on capital works increased by £4,063,001. The principal increases were in the following Accounts :—

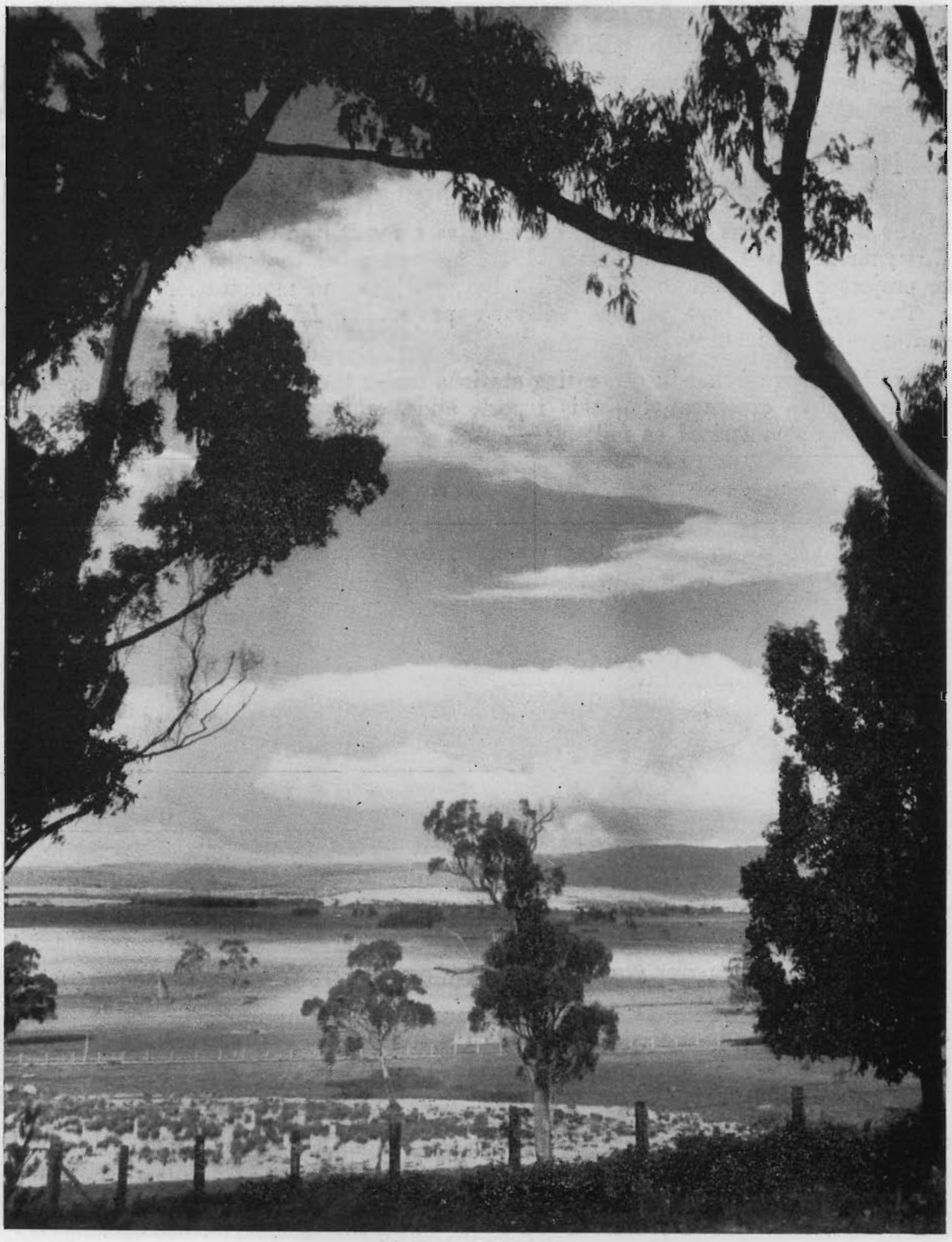
	£
Coal Production	47,965
Power Production—Thermal Stations—Newport	659,640
Power Production—Hydro Stations—Kiewa	1,034,871
Transmission Systems—	
Main Transmission Systems	253,970
Provincial and Country Branches	230,915
Distribution Systems—	
Metropolitan	218,743
Provincial and Country Branches	404,177
Briquette Production	42,249
General	1,100,168

COMMONWEALTH LOAN INVESTMENTS.

Investments in Commonwealth Loans at 30th June, 1948, totalled £1,562,300. Of this sum, £683,170 is invested on behalf of the Staff Provident Fund ; the remainder, £879,130, is an investment of the Contingency Reserve and other funds.

FURTHER BROWN COAL DEVELOPMENTS—MORWELL PROJECT.

Reference was made last year to the report submitted by the Commission to the Government on the 13th December, 1946, advising that the most favourable location for the next major development of the State's brown coal resources for briquette manufacture was immediately south of Morwell, Gippsland.



MORWELL PROJECT.
Site of new open cut and briquette factories.

The report surveyed the solid fuel requirements of Victoria and the principal fuel resources, and presented proposals for an Open Cut and two Briquette Factories, having a combined capacity of 1,300,000 tons of briquettes per annum to be established at an estimated capital cost of £18,900,000.

Parliament approved of enabling legislation on the 13th July, 1948 (*State Electricity Commission Act* 1948, No. 5272).

In anticipation of Parliamentary approval to the project, the Commission has proceeded with intensive investigation of the proposed site and carried the design to an advanced stage. Reference has been made in earlier reports to visits since the war by four senior engineers to Europe (particularly Germany) to study most recent developments in brown coal and briquette production. Orders were placed for the local manufacture of a German designed deep coal dredger and overburden dredger in June and November, 1947, and other associated plant has been ordered. The acquisition of some 8,200 acres of land is now in hand.

AUGMENTED KIEWA HYDRO-ELECTRIC PROJECT.

The Commission's report to the Government dated 12th June, 1937, as approved by Parliament, provided for a hydro-electric development on the Kiewa River of 117,000 kW ; in this report it was indicated that an enlarged project might be possible after further detailed investigations of the water power resources of the terrain adjacent to the Bogong High Plains.

The investigations were carried out and, as a result, the Commission in a report to the Government dated 21st November, 1947, recommended that the generating capacity of the project be increased to 289,000 kW by additions and modifications to the original plan. The estimated cost of the enlarged project is £25,270,000 inclusive of the expenditure already incurred.

The locations of the six generating stations under the augmented project are shown in the frontispiece accompanying this report, and the increase in the generating plant capacity can be summarized as follows:—

Generating Station.	1937 Project.	Enlarged Project.	Date of Completion.
	kW.	kW.	
No. 1	21,000	60,000	1953
No. 2	33,000	98,000	1956
No. 3	24,000	26,000	1945
No. 4	39,000	60,000	1951 (1st stage) 1953 (2nd stage)
No. 5	..	32,000	1952
"P"*	..	13,000	1955
Total	117,000	289,000	

* NOTE.—Station "P" will contain reversible turbine units which can be used either for pumping or for generating electricity, depending on requirements.

Parliamentary approval was given to the augmented project on the 13th July, 1948, (*State Electricity Commission Act* 1948, No. 5272).

MAJOR PLANT REPLACEMENTS—YALLOURN GENERATING STATION.

In 1946, the Commission advised the Government that it proposed to enter upon a programme of additional installations which would include replacement of the six 12,500-kW turbo-generator sets in "A" Station. On completion of this programme the installed capacity of the Yallourn Generating Station would be increased by 125,000 kW to 300,000 kW. As reported last year, two 50,000 kW generators and six 200,000 lb. per hour boilers for the first stage of this work were ordered in May and June, 1947. This plant, to be erected in a northern extension of the existing station, will be of a substantially higher thermal efficiency than the present plant and will incorporate several important changes in design. The capital outlay for this first stage will approximate £9,300,000.

The ultimate development of this station is at present the subject of detailed investigation, which will include consideration of potential demands as related to coal winning and overburden removal operations at Yallourn, and also the possible alternative developments of other brown coal fields or hydro-electric resources. As it will be some time before an adequate reserve of generating plant can be built up, it will be necessary to hold the existing 12,500 kW sets as reserve for a considerable period.

With the increasing use of water from the Latrobe River, it has become necessary to consider the question of a storage in the upper reaches to regulate the flow of the river, and this is now being discussed with the State Rivers and Water Supply Commission.

HYDRO-ELECTRIC RESOURCES OF THE SNOWY RIVER.

Earlier reports referred to three alternative proposals which had been made for the use of the Snowy River waters for irrigation and hydro-electricity; these proposals are:—

(*a*) A New South Wales hydro-electric project for the development of up to 250,000 kW of generating capacity for that State, and a separate power development in Victoria of about 150,000 kW. Adoption of proposal (*b*) would cause the abandonment of these power developments.

(*b*) The diversion of the Snowy at a point near Jindabyne, New South Wales, by a tunnel northwards to the Murrumbidgee River—primarily for irrigation and water supply purposes—with which would be associated a relatively limited hydro-electric development.

(*c*) The diversion of the Snowy into the Murray, providing for a maximum use of water for power generation, irrigation, stock, and domestic requirements, at the same time avoiding the curtailment of potential power resources which is inherent in the proposal to divert to the Murrumbidgee.

Representatives of the Commonwealth, New South Wales, and Victorian Governments agreed in June, 1946, that the Commonwealth Government investigate whether there was a case for a more exhaustive inquiry into the proposals. Subsequently, the Commonwealth Departments of Works and Housing and Post-War Reconstruction submitted a report showing that the proposal for a diversion of the Snowy waters to the Murray and a development of approximately 700,000 kW would be practicable.

A Conference of Premiers in August, 1947, decided to appoint a committee of experts, consisting of two representatives from each State and the Commonwealth to prepare a detailed report. The Victorian Government appointed as its representatives Mr. L. R. East, Chairman of the State Rivers and Water Supply Commission, and Mr. E. Bate, Chief Engineer of this Commission.

The Committee's investigations are proceeding; it is understood a report will be made to the Commonwealth Government before the end of 1948.

USE OF THE HUME WATERS FOR POWER GENERATION.

Reference was made in previous reports to the adoption by the Commonwealth Government and the States concerned of the proposal of the River Murray Commission to increase the capacity of the Hume Reservoir from $1\frac{1}{4}$ to 2 million acre feet.

The State Electricity Authorities of New South Wales and Victoria and the River Murray Commission have agreed in principle regarding the use of the water for electricity generation; a generating station (two 25,000-kW turbo-generators) is being designed by the Victorian Electricity Commission, to be located in New South Wales and installed and operated by that State. The output and annual costs will be shared by the Victorian and New South Wales Electricity Authorities.

At the end of 1947, technical planning and design had reached a stage when tenders could have been invited at short notice for the generating plant, but this step still awaits the legislation precedent to the raising of the storage level of the Reservoir, and further action is impossible until this legislation has been introduced and passed.

. . . . .

It is emphasized again that the waters of the Hume storage are used primarily for irrigation during the summer period when the demand for electricity is lowest; thus, for that portion of the year when the demand is highest, the storage would be filling, and there would be no regular output of electricity from the proposed station.

The project is thus one primarily related to the saving of solid fuel. While fuel shortages continue, this aspect is of considerable importance to all States.

SINGLE CONTROL OF POWER GENERATION AT NEWPORT.

In January, 1948, the Government approved of the principle of a single generating authority at Newport, necessitating the transfer of the Victorian Railways generation assets (Newport "A" Power Station) to Commission ownership. Discussions between both authorities are proceeding with a view to agreement regarding transfer of the assets and supply of electricity in bulk to the Victorian Railways Commissioners.

Legislation authorizing the transfer was passed by Parliament on the 13th July, 1948 (*State Electricity Commission Act* 1948, No. 5272).

GASIFICATION OF BROWN COAL.

As reported last year, the Commonwealth Government, at the instance of the State Government, arranged for two German scientists—Dr. F. S. W. Danulat and Mr. E. Bruggëmann—to come to Australia to investigate the production of town gas from Victorian brown coal. Dr. Danulat is one of the two inventors of the "Lurgi" process of obtaining town gas from brown coal and Mr. Bruggëmann is an experienced designer and operator of this type of plant. Both were selected for the task by Messrs. R. S. Andrews and R. J. Bennie, representatives of the Metropolitan Gas Company, during investigations of the process in Germany.

The Commission has been responsible for their employment under conditions specified for German scientists working in Australia, and a Technical Committee, representative of the gas industry, and under the Chairmanship of the Commission's Chief Engineer, Mr. E. Bate, M.C., B.Sc., Whit. Schol., A.M.I.E. Aust., directed the investigations.

In a report dated 22nd July, 1948 (now under consideration by the State Government), Dr. Danulat and Mr. Bruggëmann, after a study of the different possible processes for producing town gas from Latrobe Valley brown coal, stated that the "Lurgi" process is the best, and recommended, as the first stage in the establishment of a brown coal gasification scheme in Victoria, the erection of a "Lurgi" research unit with a daily capacity of 1,000,000 cubic feet of town gas. They further recommended that this research plant, which would take two years to erect, be located adjacent to the works of the Metropolitan Gas Company. This plant and associated research work is estimated to cost £200,000.

The Technical Committee, commenting on the report, stated that the economic practicability of production of town gas of calorific value 430–450 B.T.U. per c.ft. from brown coal briquettes had been demonstrated in Germany, but as there has been no actual production of the required gas by the "Lurgi" process from Yallourn or Morwell briquettes, there remain many associated technical problems to be solved before the establishment of a large-scale plant.

The Committee considers it is probable that the future arrangement of major gas production plant will be a combination of high pressure gasification plant to furnish base requirements with water gas plant using the methane synthesis to deal with the fluctuating and peak portions of gas demand. Although brown coal briquettes have been gasified in water gas plants in Germany and Yallourn briquettes in Melbourne, the requisite technique for continuous operation has not yet been established and more experiment and experience on a pilot scale is needed.

Accordingly, the Committee, in supporting the recommendations of Dr. Danulat and Mr. Bruggëmann, also recommends that a pilot plant for water gas and methane synthesis should be established as soon as possible, preferably in the Melbourne area. This additional pilot plant of 500,000 cubic feet per day capacity would cost £150,000, making the total sum required for research £350,000, which includes the cost of operation of both plants for about one year.

In this matter, the Commission has functioned for the State as its liaison with the gas industry. With the submission of the Danulat-Bruggëmann report to the Commonwealth and State Governments, the Commission as a body ceases to have association with the consideration of and action on the recommendations. These are matters for the State Government and in this context the Commission, since the close of the financial year, has made available to the Government the services of its Senior Research Officer, Mr. G. Baragwanath, B.Sc., A.A.C.I. Mr. Baragwanath, in association with a representative of the Council for Scientific and Industrial Research, is to visit U.S.A. and the United Kingdom. He is to report upon the fluidized technique for the production of gas and liquid fuels from coal by different processes, and industrial applications of this process in other fields and related matters.

CONNECTION OF NEW CONSUMERS.

Despite setbacks caused by shortages of essential line construction materials, 44,000 additional consumers were connected to supply during the three post-war years.

Special measures taken to procure and transport additional supplies of materials are referred to earlier in this report.

The following table shows the extent of the Commission's country electrical development during the last decade :—

Financial Year.	Total Consumers Served by Commission.	Extra-Metropolitan Consumers.	Farms Supplied.
1937–38	249,244	75,690	3,426
1942–43	296,717	99,670	7,032
1947–48	**355,258**	**142,968**	**13,181**

Thus in this decade, and despite the war and post-war difficulties, extra-metropolitan consumers have almost doubled, while the number of farms connected has increased four-fold. Further details are shown in the " Ten Year Statistical Review " (Graphs Nos. 7 and 9) at the front of this report.

SUMMARY OF PROGRESS—44,000 NEW CONSUMERS IN THE THREE POST-WAR YEARS.

Year Ended 30th June.	New Consumers Connected.			Farms Connected.
	Total.	Metropolitan Area.	Outside Metropolitan Area.	
1946	10,460	2,786 (27 per cent.)	7,674 (73 per cent.)	1,437
1947	17,655	4,426 (25 per cent.)	13,229 (75 per cent.)	1,471
1948	**15,972**	**5,657 (35 per cent.)**	**10,315 (65 per cent.)**	**1,340**
Total for Three Years	**44,087**	**12,869 (29 per cent.)**	**31,218 (71 per cent.)**	**4,248**
Total for three years prior to war ..	35,199	17,917 (51 per cent.)	17,282 (49 per cent.)	2,397

The decrease in the number of farms connected during the twelve months ended 30th June, 1948, was caused solely by shortages of materials, stocks accumulated to carry out the post-war extension programme having been completely exhausted. By far the greater proportion of current supplies have been used in country districts, as shown by the following summary of line construction work for the twelve months ended 30th June, 1948 :—

	Metropolitan Area.	Outside Metropolitan Area.
Poles erected	1,645	8,242
High voltage lines erected	9·6 miles	305·9 miles
Low voltage lines erected	50·4 miles	301·5 miles
Substations erected	33	272

ELECTRICITY SUPPLY TARIFFS.

As forecast in last year's report, the upward trend in capital and operation costs has necessitated a general increase in electricity supply tariffs.

The average price per kilowatt-hour had been halved since 1919 when the Commission was established. It, therefore, was a great disappointment to the Commission that it was obliged for the first time in its history to introduce these increased tariffs. Details of the new schedules, effective from 1st July, 1948, are contained in Appendix No. 7. The tariff adjustments on the average represent an approximate increase of 12½ per cent., and have been formulated to ensure an additional annual revenue of £750,000.

The Commission had been able to postpone this rise in price by drawing on its reserves; however, it was impossible for reserves to meet the heavy increases in operating expenses beyond the end of the financial year 1947-48. Higher wages, general costs, and the shorter working week alone have involved for the year an additional expenditure of over £1,340,000, £880,000 of this sum being chargeable to operating costs.

Two new tariffs were also introduced on the 1st July, 1948, viz. :—

Uniform Tariff—Farming Operations.—The separate lighting and power tariffs applicable to farming operations have been superseded by a new General Service Tariff combining power, heating and lighting at uniform rates in all districts outside the metropolitan area.

Commercial General Service Tariff.—This tariff is available as an optional tariff to the existing separate commercial lighting, and power and heating tariffs.

(For details of these new tariffs see Appendix No. 7.)

The Uniform Farm Tariff represents a further measure of preferential treatment to those consumers in the country who are engaged in primary production. Since 1940, consumers in provincial and country areas have exclusively benefited by a number of tariff changes to the extent of more than £100,000 calculated on the consumption at the date when the reductions were made.

Charges for bulk supplies to municipal authorities were increased as from the 1st July, 1948, but no increase was made in the charges to municipalities and other authorities for public lighting service.

YALLOURN TERRITORY.

Population.—5,734, of whom 4,198 are resident in the Town of Yallourn.

Housing.—As mentioned in previous reports, the Town has reached its maximum development; 28 residences were completed during the year, bringing the total to 989.

At Moe, contracts have been let by the Housing Commission, Victoria, for 405 houses, 189 of which have been completed. At 30th June, 1948, 117 of these houses were occupied by Yallourn employees, but the housing problem is still most acute.

The immediate requirement of houses, apart from those for personnel to be employed on the Morwell Project, is assessed at 500 new homes. To provide for those yet to be employed on large-scale extensions at the Yallourn Generating Station and other projected works, a further 700 houses will be required by 1950, or a total of 1,200 houses during the next two to three years.

Adjacent to the Western Hostel, Yallourn, 33 temporary houses were erected for contractors' employees.

Hostels and Accommodation for Single Men.—At the Western and Yallourn North Hostels accommodation was provided for an additional 113 men. Extensions in progress at the latter hostel will cater for a further 128 men, thus providing for over 1,000 men in these two hostels.

A large modern hostel in Eastern-road to accommodate 308 men is being erected; two blocks are already occupied by 88 men.

The additional wing to accommodate 26 at the existing guest house in the town has been completed; construction of a second guest house to cater for 60 is well advanced.

Sewerage of the Town.—Good progress is being made with the construction of reticulation sewers; 65 buildings have been connected.

Hospital and Medical Services.—These are administered by the Yallourn Medical and Hospital Society, financed by regular contributions from all employees. The hospital accommodates 44 (emergency capacity 50) and the daily average number of occupied beds, 34, was the same as last year.

Shopping Facilities.—Earlier reports have referred to the project to erect shops for leasing to private traders in the area between Broadway, Centreway, and Green-street. The first section comprising five shops has been completed and leased; a second group has been commenced.

Pre-school Centre.—A modern nursery kindergarten to accommodate 55 children was completed during the year and officially opened on the 3rd July, 1948. The Yallourn Community Kindergarten Association has provided furnishings and is conducting the Centre; the building is being leased to it at a nominal rental.

Infant Welfare Centre.—A commencement has now been made with this project which was delayed by building difficulties.

Fire Station and Quarters.—The new fire station, with quarters for permanent members of the fire brigade, has been completed—the building includes a gymnasium and other amenities to ensure that personnel have facilities for the highest standards of training.

Civic Hall.—The Commission for many years has recognized the need for a Public Hall at Yallourn, but the project has been delayed by building conditions. As a temporary provision, a large prefabricated steel building and annexes will be used for this purpose. These buildings will be used as a Youth Centre when the permanent Civic Hall is erected.

MOE–YALLOURN RAILWAY.

With the substantial increase in output of brown coal for industry from the Yallourn North Open Cut, existing rail facilities at Yallourn will soon be inadequate; in addition, it is anticipated that the Yallourn Open Cut will encroach on the existing rail link from Herne's Oak to Yallourn by 1954. In August, 1947, the Commission requested that consideration be given to the provision by the Victorian Railways of additional marshalling yards at Yallourn and the construction of a branch line from Moe to Yallourn to replace the present link.

Investigations into this matter by the Public Works Committee of Parliament extended to the best methods of handling briquettes from the Morwell Project and the possible future deviation of the main Gippsland line. A conference between the representatives of the Victorian Railways and this Commission reached agreement on a location for the Moe-Yallourn line and the Public Works Committee recommended that the construction of the marshalling yards and spur line be proceeded with as an urgent measure. A commencement has been made with the clearing and construction works.

YALLOURN LOCAL GOVERNMENT.

As reported last year, Parliament on the 25th June, 1947, passed legislation for the establishment of the Yallourn Town Advisory Council of seven members—three to be nominated by the Commission, and an independent Chairman to be appointed by the Government. The following were subsequently appointed :—

Mr. T. Forristal, Chairman	Appointed by the Government.
Brigadier J. Field, Assistant General Superintendent, Yallourn Mr. E. G. Chisholm, Chief Clerk, Yallourn . . . . Mr. J. A. Collins, Works Personnel Officer, Yallourn . .	Appointed by the Commission.

A poll was held on the 13th December, 1947, and the following were elected as representatives of the residents :—

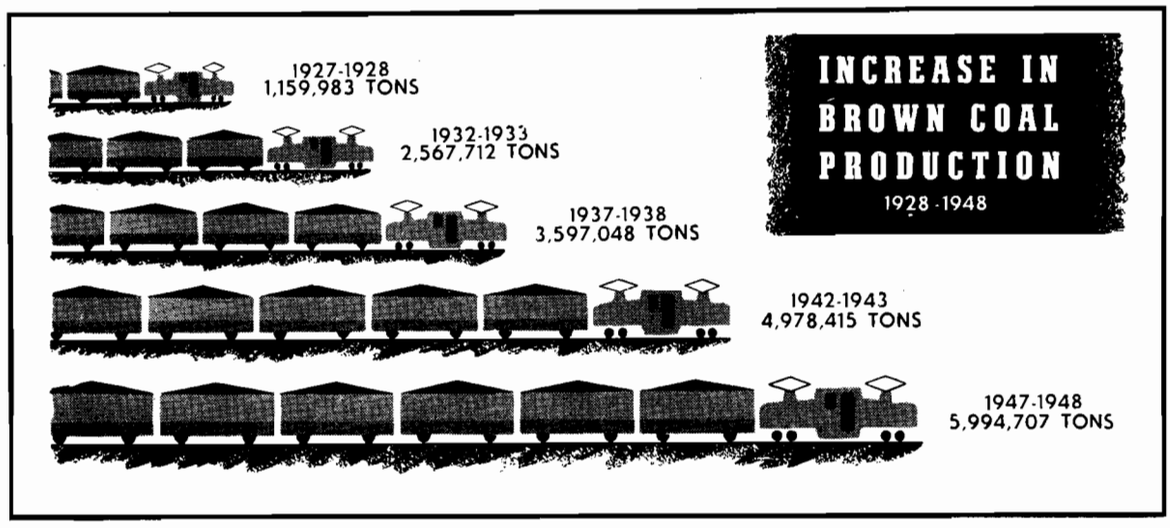
Mr. R. S. J. Edmondson, for a period of three years.
Mr. A. W. E. Fewster, for a period of two years.
Mr. R. Hamilton, for a period of one year.

The inaugural meeting of the Council was held on the 7th January, 1948, since when meetings have been held regularly.

COAL PRODUCTION.

YALLOURN OPEN CUT.

	Tons
1927–28	1,159,983
1932–33	2,567,712
1937–38	3,597,048
1942–43	4,978,415
1947–48	**5,994,707**



Coal Winning.—The year's operations brought the total coal excavated since the commencement of operations to 76·57 million tons. Of the coal won during the year, 3,763,828 tons were delivered to the Yallourn generating station and 2,230,879 tons to the briquette factory. On the 3rd June, 1948, 22,457 tons were produced—the largest daily output yet achieved.

Overburden Removal.—2,057,000 cubic yards of overburden were removed, as compared with 2,173,100 cubic yards during the previous year, bringing the total removed at the 30th June, 1948, to 29·12 million cubic yards.

The area of the Open Cut has increased from 506 to 570 acres at grass level and from 445 to 490 acres at the surface of the coal.

Plant.—Manufacturing in Germany of the two dredgers ordered last year is proceeding—one a chain bucket turret type dredger will be used for overburden removal, the second a bucket wheel type is to be used for coal winning.

No. 3 track-shifting machine was placed in service, but progress in the local manufacture of four additional locomotives and a further eighteen overburden trucks has been disappointing, lack of materials causing delay. An additional twelve gable bottom 20–ton coal trucks were ordered locally.

YALLOURN NORTH OPEN CUT.

197,629 tons of coal were produced during the year for industrial purposes, making a total of 1,937,356 tons produced since the Commission commenced operations at this cut in 1924.

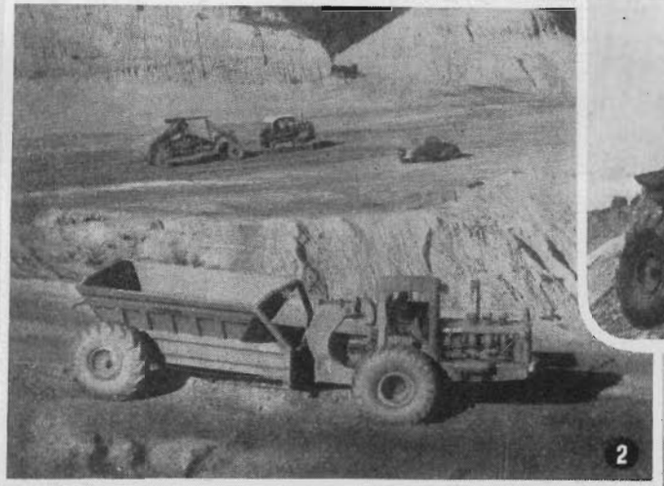
Production from this cut was increased at the Government's request so that Victorian industry could use raw brown coal and minimize the effect of the long-standing shortage of New South Wales black coal. By the co-operation of the Country Roads Board, it has been possible to increase annual production by 64,000 tons, or about 50 per cent.

10608/48.—2

Production of BROWN COAL for INDUSTRY • YALLOURN NORTH OPEN CUT (198,000 TONS, 1947-48)

GENERAL VIEW OF YALLOURN NORTH OPEN CUT

REMOVAL OF OVERBURDEN



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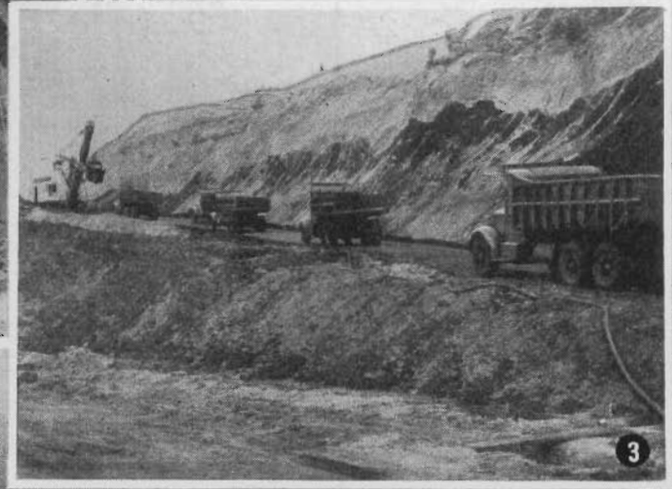
1

❶ 3½ CUBIC YARD ELECTRIC SHOVEL AND TOURNAPULLS

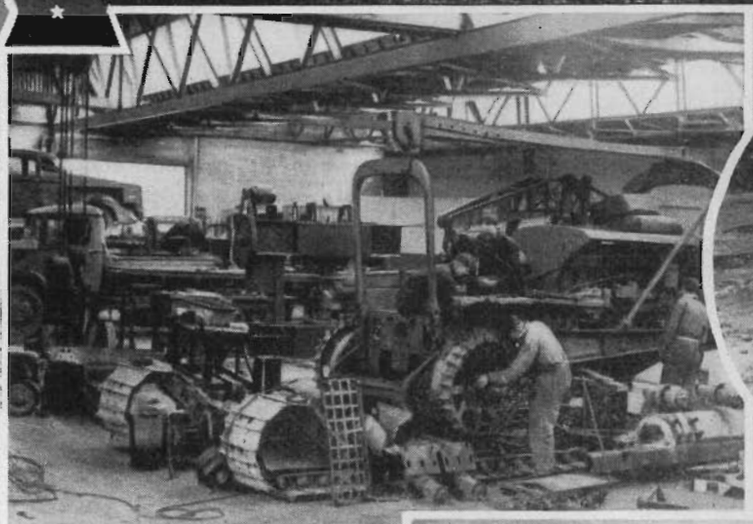


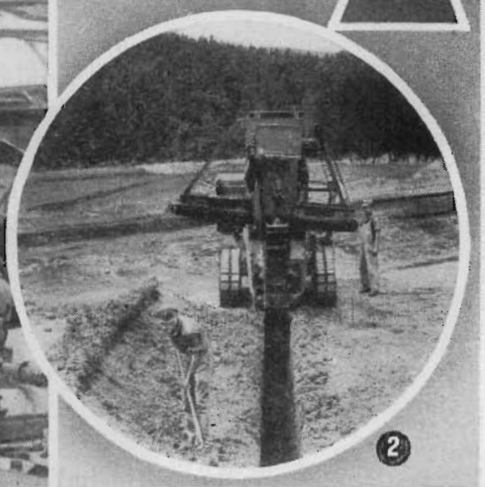
3

❷ TOURNAPULL (Foreground)
TRACTOR AND SCRAPER (Background)

❸ FLEET OF HEAVY DUTY 10-TON TRUCKS

HEAVY TRANSPORT AND EARTH MOVING EQUIPMENT

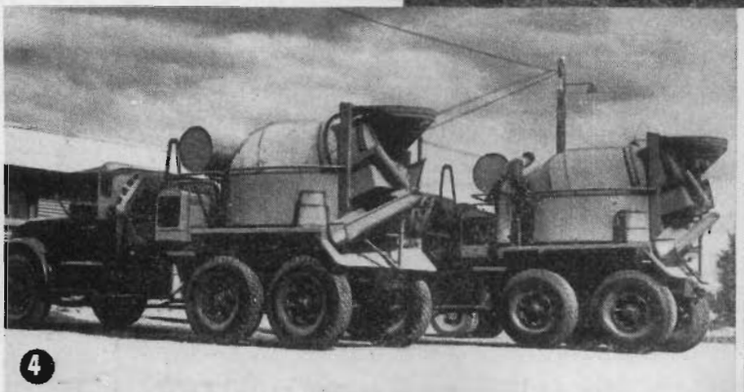




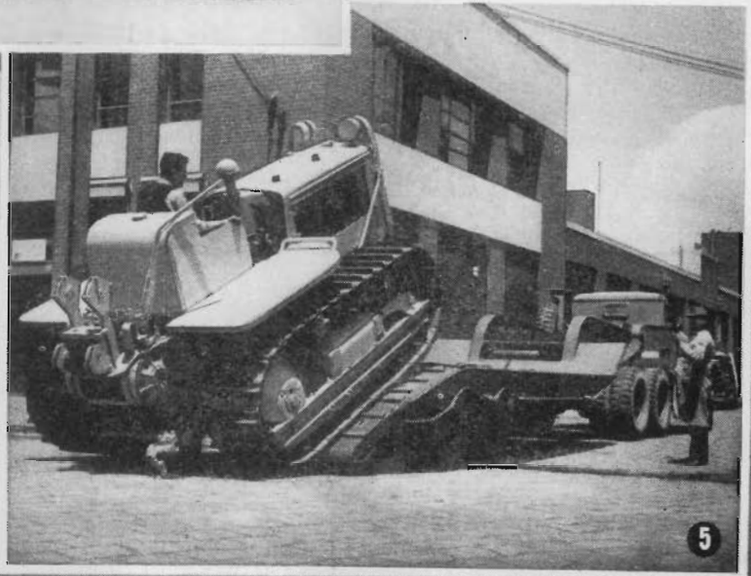
1 TRACTOR MAINTENANCE YALLOURN WORKSHOPS

2 BARBER-GREENE DITCHER

3 10-TON DIESEL TRUCKS USED FOR OVERBURDEN REMOVAL, YALLOURN NORTH OPEN CUT



4 10-TON DIESEL TRUCKS FOR TRANSPORTING READY MIXED CONCRETE-KIEWA



5 HEAVY TRACTOR BEING LOADED ON LOW TRAILER FOR TRANSPORT-TO KIEWA

POWER PRODUCTION.

The State generating system comprises interconnected generating stations at Yallourn, Melbourne (Newport, Richmond, and Spencer-street, City), Kiewa, Sugarloaf–Rubicon, Geelong and Ballarat. The Commission also operates a regional station at Hamilton.

Terminal Stations are located at Richmond, Yarraville, Brunswick, Thomastown, East Malvern, Rubicon "A", and Geelong. The transmission system includes the lines from the inter-connected generating stations to the terminal stations and from the terminal stations to the main metropolitan substations, together with those linking the main substations. Electricity is transmitted to the Commission's various Electricity Supply branches, Melbourne and Country, and also to those Melbourne municipal undertakings which purchase in bulk.

Under emergency conditions, frequency changers are used for supply to and from the Victorian Railways system (25 cycle), the maximum capacity being 22,000 kW.

The installed capacity of generating plant at the 30th June, 1948, was as follows:—

	kW
Thermal Stations—	
Yallourn (including Briquette Factory) ..	183,000
Melbourne—	
Newport	138,000
Spencer-street	37,000
Richmond	15,000
Geelong	10,500
Ballarat	5,900
Hamilton (not connected to State system) ..	1,837
Hydro Stations—	
Sugarloaf–Rubicon	26,415
Kiewa (1st stage)	26,000
Total	443,652

Details of the loading (*a*) on generating stations throughout the State, and (*b*) on Commission's generating stations are given in Appendix No. 11.

LOADING ON COMMISSION'S GENERATING STATIONS.

Generating Stations.	Maximum Demand (kW).		kWh Generated (Millions).	
	1947–48.	1946–47.	1947–48.	1946–47.
Thermal Stations—				
Yallourn (including Briquette Factory) ..	195,500	185,000	1,223·9	1,180·6
Melbourne—				
Newport	134,000	88,000	299·0	181·6
Spencer-street	34,500	29,820	66·3	51·1
Richmond	15,400	15,520	29·6	23·5
Geelong	11,750	11,800	33·1	26·9
Ballarat	5,650	5,150	18·8	18·0
Local—not connected to State system (principally Hamilton)..	1,140	1,000	3·6	3·1
Hydro Stations—				
Sugarloaf–Rubicon	25,850	25,850	161·8	144·7
Kiewa	26,400	26,700	68·3	61·5
	Maximum Coincident Demand.		Total.	
	449,500	364,750	1,904·4	1,691·0

The increased requirements were met principally by the additional plant installed at Newport. The load factor of the Yallourn Station was 71·2 per cent. and the output the highest yet recorded. Favourable climatic conditions enabled a further increase in the output of hydro-electric stations.

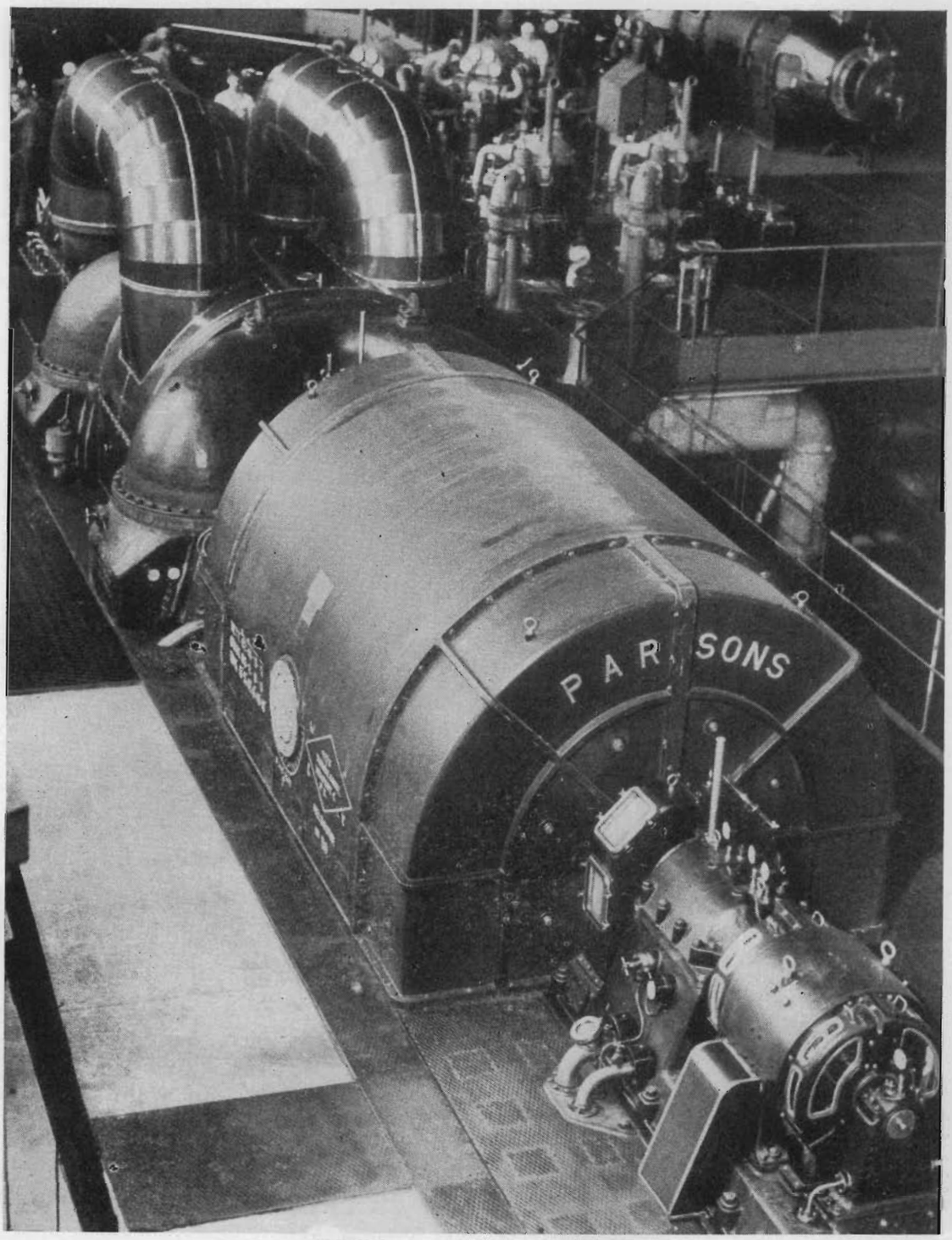
MAJOR EXTENSIONS PROGRAMME.

Newport Generating Station (Four 30,000 kW sets, Nos. 4, 5, 6, and 7).

No. 4 turbo-generator is in service. No. 5 was completed in December, 1946, but strikes last year delayed completion of the associated two boilers—one has been in operation throughout the year and the second was brought into service on 16th January, 1948.

Erection of No. 6 turbo-generator was completed on 26th July, 1948, but acute steel shortages, both in Great Britain and Australia, have delayed completion of the two associated boilers—it is expected that both will be in service before the winter of 1949.

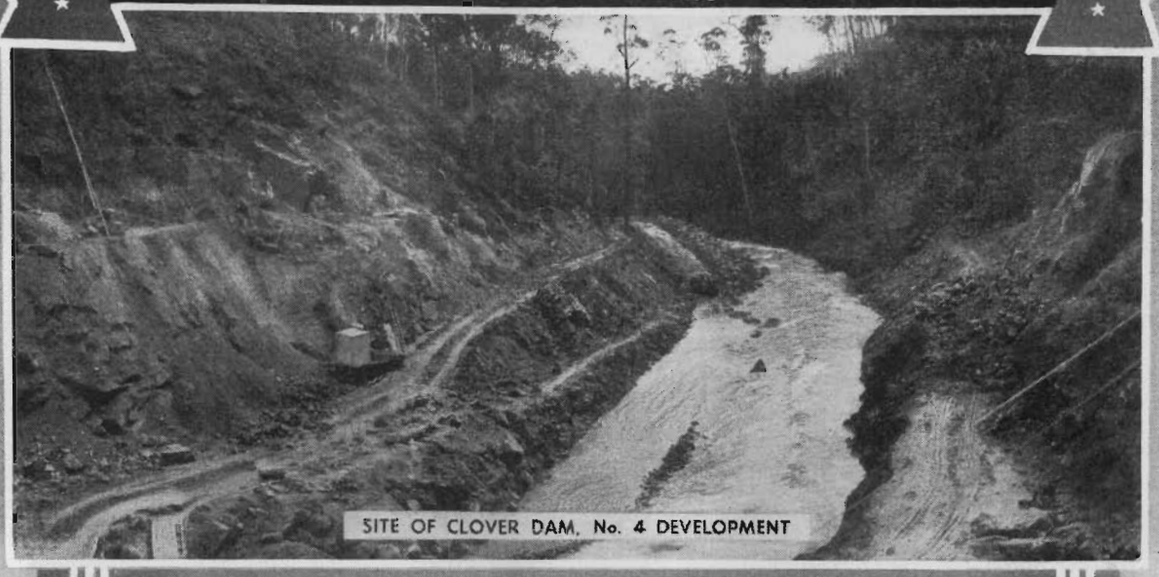
No. 7 turbo-generator has been delivered at the site, but present indications are that it cannot be erected and in service for the 1949 winter. Boilers for this set are also delayed by shortage of construction material and late delivery from overseas.



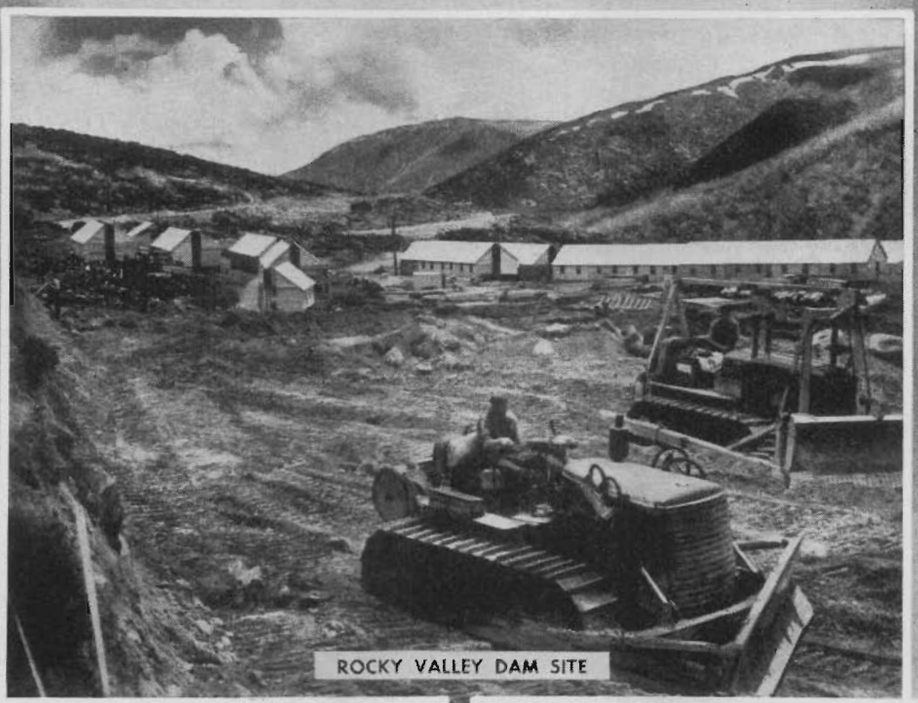
NEWPORT GENERATING STATION.
Recently installed 30,000 kW generating set (No. 5).

To meet the urgent need for additional coal handling facilities, two transporters are being erected—one is completed but its full use awaits extension of the travel track.

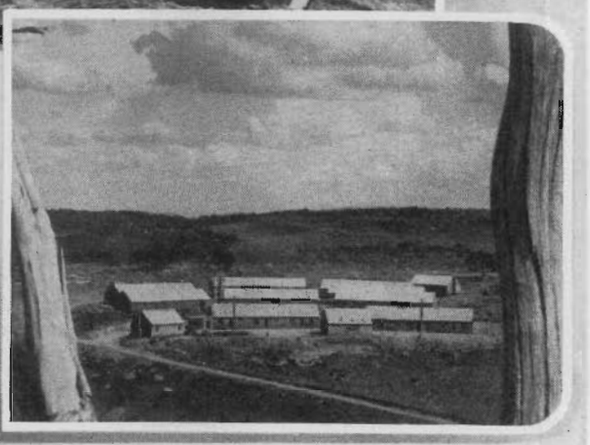
KIEWA HYDRO-ELECTRIC SCHEME
NEW DEVELOPMENTS



SITE OF CLOVER DAM, No. 4 DEVELOPMENT



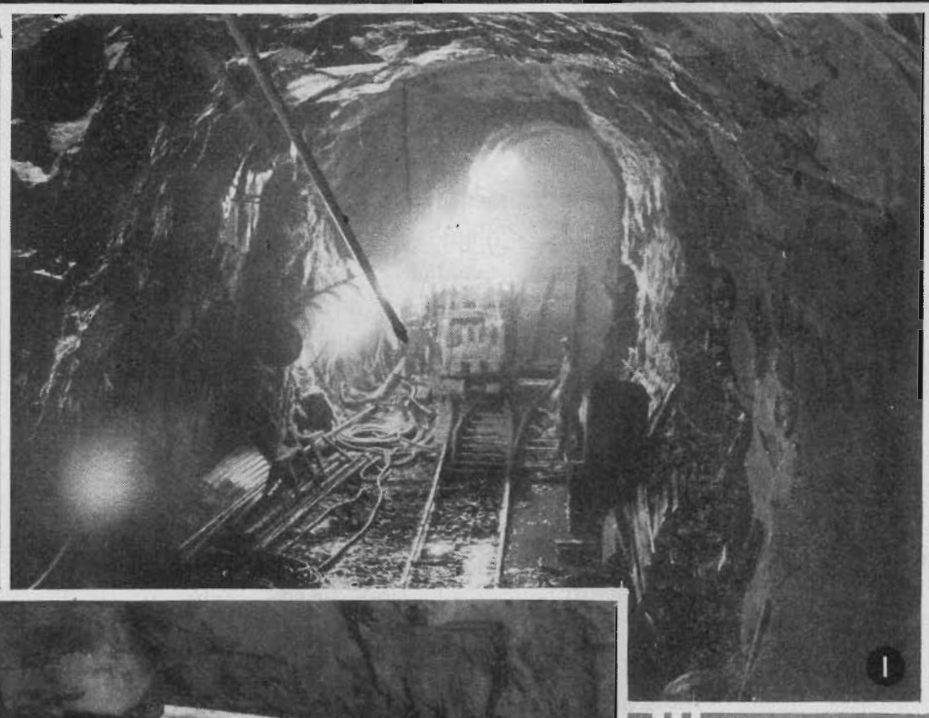
ROCKY VALLEY DAM SITE

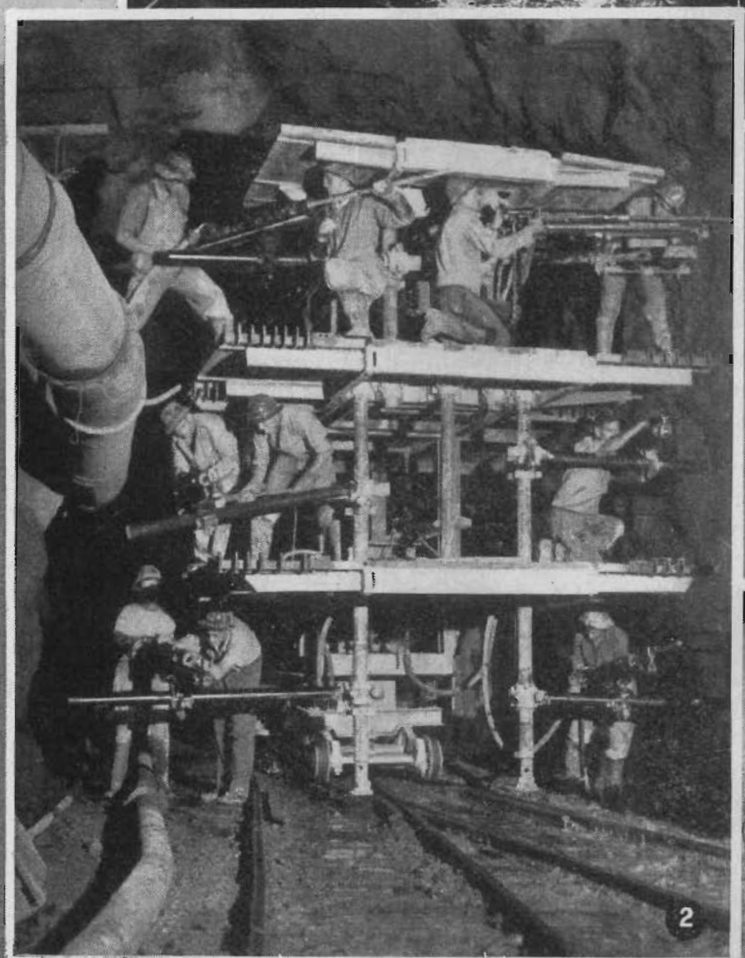


PRETTY VALLEY DAM SITE

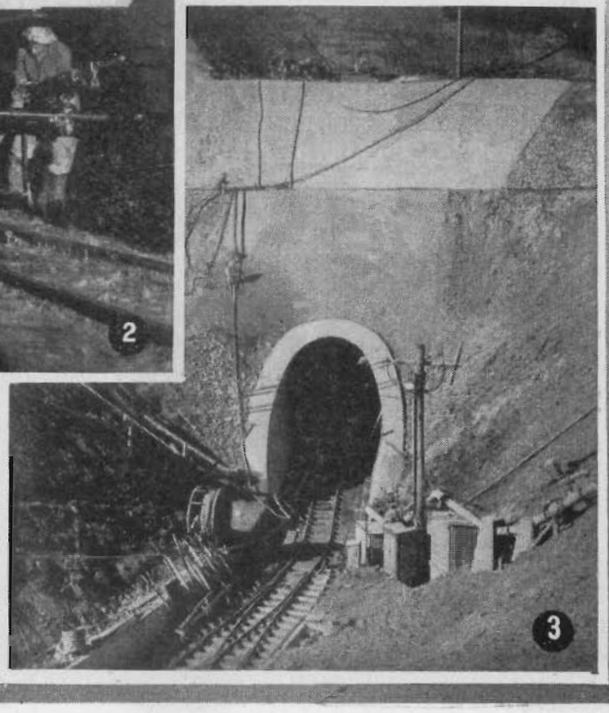
KIEWA HYDRO-ELECTRIC SCHEME

TUNNELLING OPERATIONS





1. HEAD RACE TUNNEL No. 4 DEVELOPMENT
2. DRILLING JUMBO AT WORK
3. OUTLET OF TAILRACE TUNNEL . . . No. 4 DEVELOPMENT



Kiewa Hydro-Electric Project (Installed Capacity of Augmented Project 289,000 kW).

Construction was accelerated as additional labour became available. During the year personnel increased from 610 to 1,266. The number and skill of those seeking employment showed a marked improvement from the end of 1947 onward.

No. 3 *Development.—Bogong* (*Installed Capacity* 26,000 *kW*).—This development as originally planned was completed early in 1945; a start has been made on the Bogong Creek race line provided for in the augmented project to supply additional water to this development.

No. 4 *Development* (*Ultimate Capacity* 60,000 *kW*).—The tail race channel, pondage embankment and the adit (353 feet long) leading into the head race tunnel were completed; the main tunnel has been excavated 1,412 feet—12 per cent. of the total length. The tail race tunnel has required continuous support for the full excavation to date (343 feet). The tunnel at this stage passes through a buried river bed, necessitating an additional 167 feet of concrete lining. The lift shaft to give access to the underground generating station was advanced to a depth of 334 feet—70 per cent. of the total depth (450 feet). Access roads and a tramline to the Clover Dam site were constructed and the excavations for the foundations of the dam commenced.

Delivery of three 15,000 kW turbo-generators being manufactured in Great Britain is expected to commence during 1949 and finish early in 1950.

No. 5 *Development* (*Ultimate Capacity* 32,000 *kW*).—This will be an underground generating station with horizontal access tunnel; design of the station and equipment is proceeding and work on the access road has commenced.

Nos. 1 *and* 2 (*Upper*) *Development* (*Ultimate Capacity* 73,000 *kW and* 98,000 *kW respectively*).—The designs of the multiple-arch reinforced concrete dam for the Pretty Valley branch of the East Kiewa River, and the earth and rock filled dam at the Rocky Valley branch were advanced. Preparatory works, erection of buildings, and the assembly of construction plant are in progress to enable early commencement with the major developments during the forthcoming summer.

Base Workshops and Accommodation.—At Mount Beauty, the establishment of a base depot and store, and the erection of additional accommodation for single men are in progress. Fifty-one houses have been completed and 73 are in course of erection. Arrangements have been made with the Housing Commission to supply and transport to Mt. Beauty 80 prefabricated homes. Construction of township streets, water, sewerage, and electrical reticulation are well advanced.

Auxiliary workshops, stores and hostels for single men are being provided at several locations adjacent to the other developments of the Kiewa project.

Yallourn Generating Station.

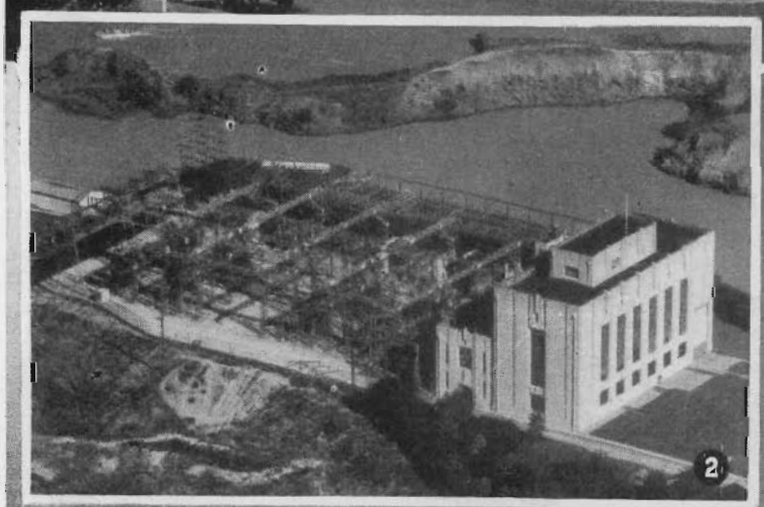
Reference is made earlier in this report to the plans for augmenting the capacity of the Yallourn Generating Station. The initial site works, and the design and purchase of auxiliary plant for the two 50,000 kW turbo-generators and six associated boilers ordered last year, are proceeding. These two generators are to replace six 12,500 kW sets in "A" station.

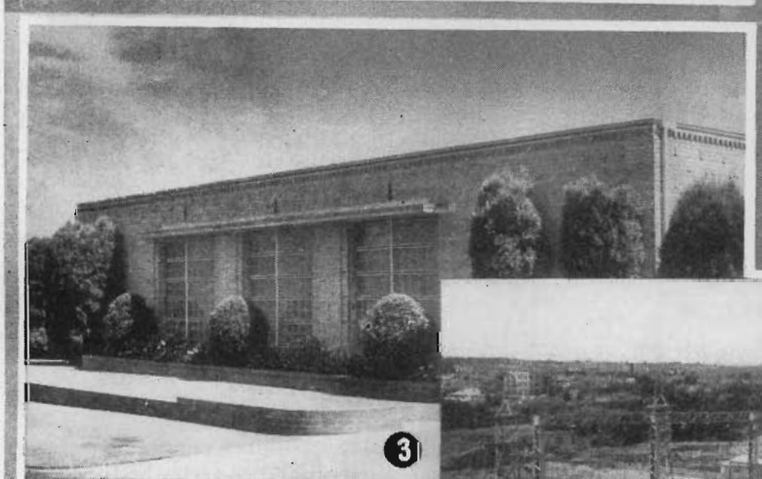
Main Transmission and Transformation.

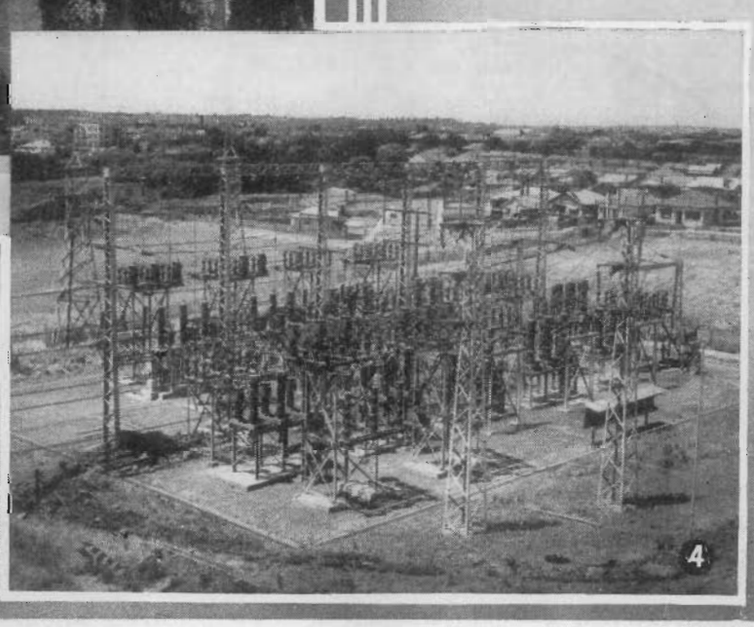
Good progress was made in clearing and road construction for the Kiewa-Melbourne 220 kV transmission line and orders were placed for towers, conductors, insulators, and other line equipment. Switchgear and transformers were ordered for those terminal stations and main substations which will transmit the greater outputs to be obtained from Yallourn, Newport, and Kiewa.

TERMINAL AND MAIN SUBSTATIONS

TYPICAL STRUCTURES







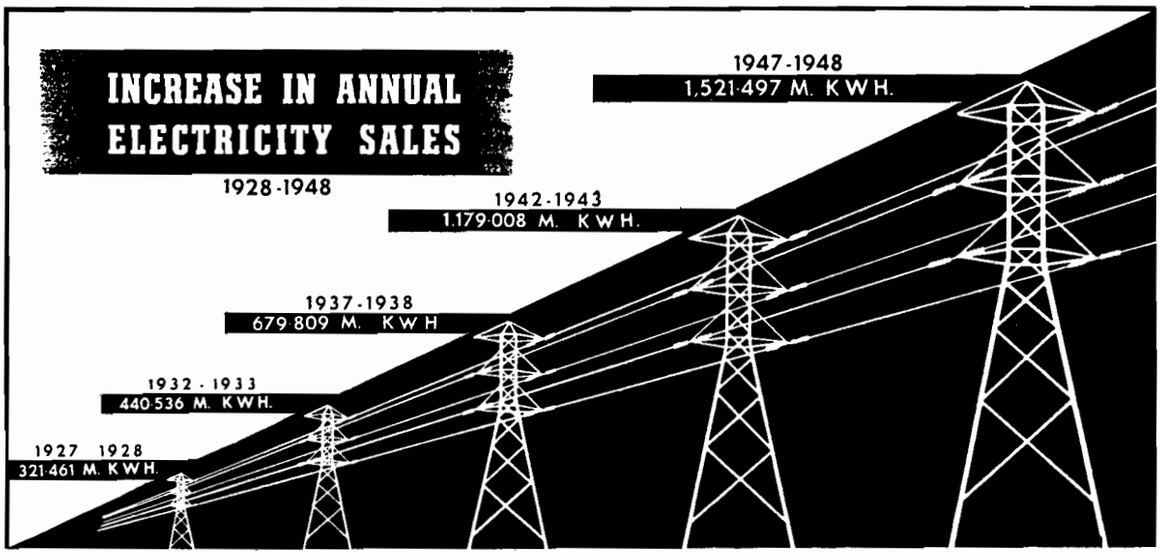
1. YARRAVILLE TERMINAL STATION
2. RICHMOND TERMINAL STATION
3. MAIN SUBSTATION AT CAULFIELD DESIGNED TO HARMONISE WITH THE LOCAL SURROUNDINGS
4. BRUNSWICK TERMINAL STATION 66 KV SWITCH YARD

ELECTRICITY SUPPLY.

ANALYSIS OF DEVELOPMENT.

Electricity sold to all consumers, including bulk supplies, increased by 177 million kWh, or 13·2 per cent., as compared with 70 million kWh, or 5·5 per cent. (1946–47), and 67 million kWh, or 5·5 per cent. (1945–46). There has been a general expansion of requirements of all classes of consumers, but the larger increment this year is due in part to the incidence of restrictions on the use of electricity and to industrial disputes during 1946–47. The following statistics of annual electricity sales indicate the extent of development of the State electricity system over the last two decades :—

	kWh (Millions).
1927–28	321·461
1932–33	440·536
1937–38	679·809
1942–43	1,179·008
1947–48	**1,521·497**



Domestic Class.—This year the increase in the average consumption per domestic consumer was 136 kWh. The previous largest increase was 90 kWh (1945–46.) Statistics for the last five years are as follows :—

Year.	Average Consumption per Domestic Consumer. kWh
1943–44	793
1944–45	838
1945–46	928
1946–47	1,015
1947–48	**1,151**

Total sales to domestic consumers increased by 18·7 per cent.—due to additional consumers (13,483) and additional appliances installed, particularly hot water services.

Commercial Class.—Consumption increased by 17·1 per cent. over last year. Consumers can now obtain additional equipment not available during the war; also, restrictions on the use of electricity did not fall so heavily in 1947–48 upon this class as during the war and earlier post-war years.

Industrial Class.—The increase of 11 per cent. in sales shows that the previous year's upward trend has continued. Industrial conditions generally were more settled, but these increased electricity sales reflect the considerable further development of motive power for 26,507 h.p. of motors were connected during the year. There continues to be a marked interest by industrialists in electric-heating applications.

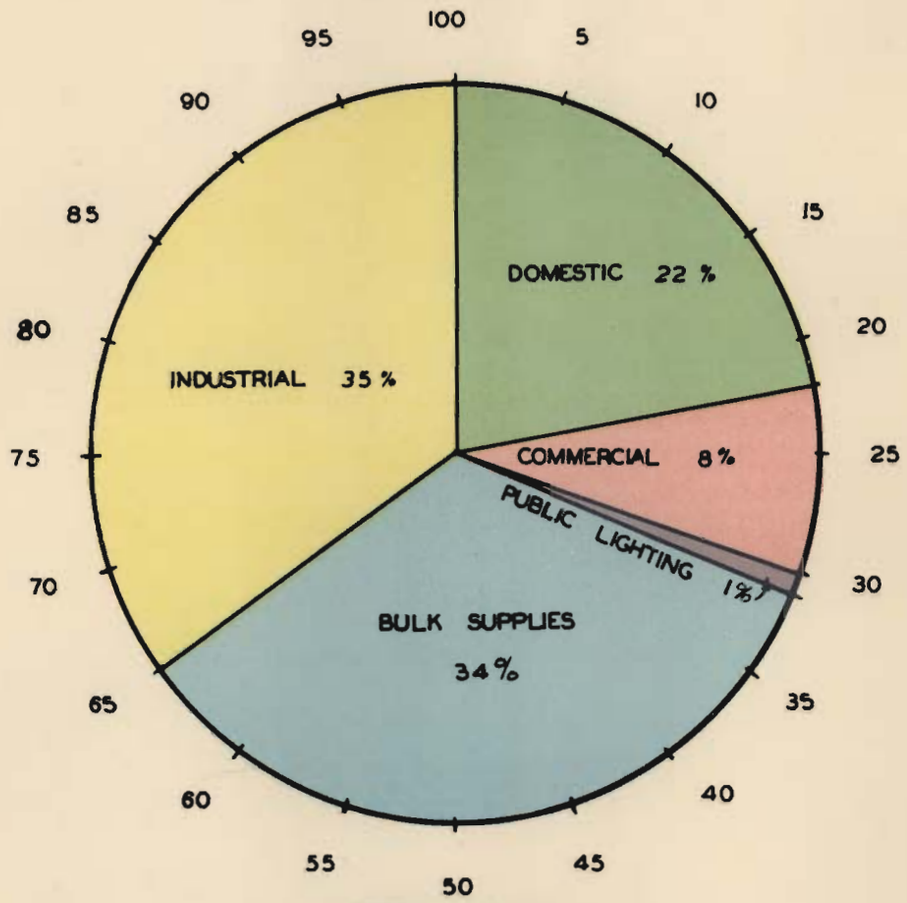
ELECTRICITY SALES AND REVENUE

SUBDIVISIONS ACCORDING TO CLASSES OF CONSUMERS

YEAR ENDED 30 TH JUNE 1948

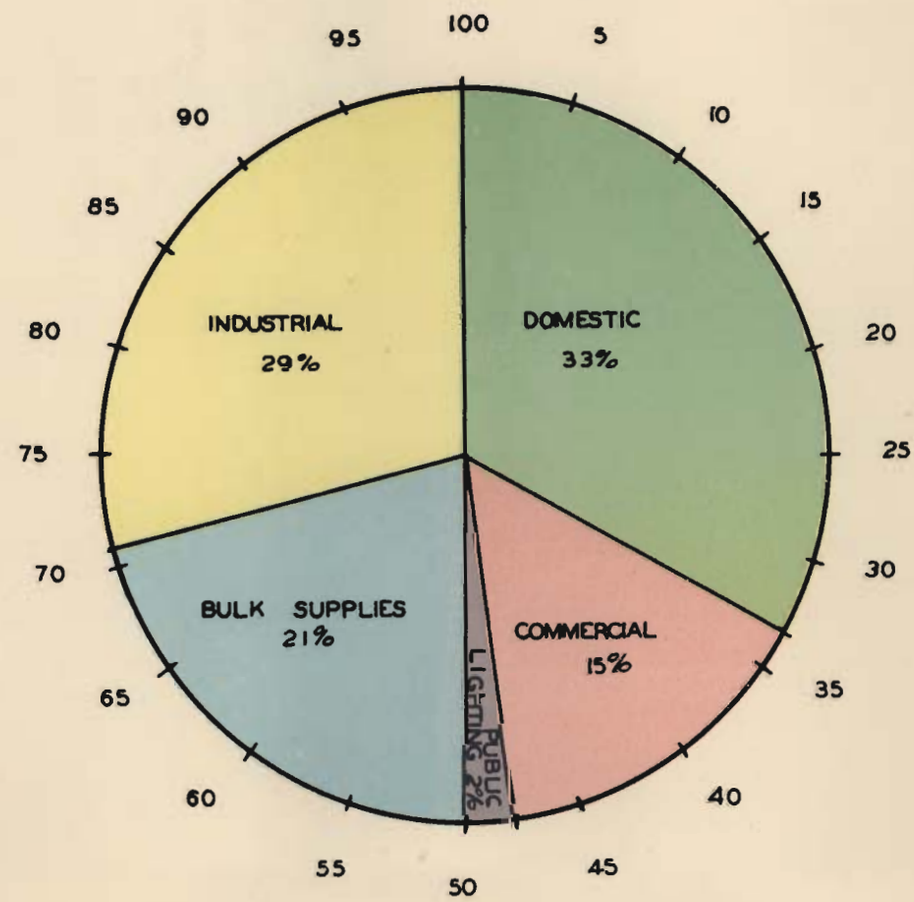
SALES

TOTAL 1521·5 MILLION KWHS



REVENUE

TOTAL £ 6,543,089



Mining.—Because of rising production costs and the fixed price of gold, there has been little change in the electricity requirements of this industry. The number of mines on supply was 45—a decrease of five for the year.

Rural.—Reference is made earlier in this report to the progress and development of rural extensions.

Public Lighting.—There was an increase of 2·8 per cent. in consumption, mainly as a result of additional lamps connected.

* * * * * * * * *

The special advisory services available to consumers of electricity have been used with an increasing appreciation. Guidance has been given concerning the design of installations for new dwellings, large lighting installations, and the use of electricity in manufacturing processes. Research by the Commission's Rural Service Section in conjunction with the appropriate authorities has been responsible for advances in the application of electricity in such fields as dairying, poultry farming, electro-horticulture, and farm water supplies.

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION.

The following summary of statistical data relating to the Commission's Electricity Supply Undertakings for local distribution (excluding Bulk Supply areas) is compiled from information contained in this report :—

Revenue increased by £549,147 (11·9 per cent.) to £5,160,874.

Sales of Electricity increased by 119,974,112 kWh (13·4 per cent.) to 1,014,716,958 kWh.

Consumers increased by 15,972 (4·7 per cent.) to 355,258.

Branch.	Area of Supply (Square Miles).	Number of Consumers.	Electricity Sold kWh (Millions).	Constructed this Year.				Number of Farms Supplied.
				Substations.		Distribution Lines.		
				Number.	Capacity kVA.	H.V. Route Miles.	L.V. Route Miles.	
Metropolitan	250·2	212,290	685·362	33	11,045	9·6	50·4	1,206
Ballarat	209·7	14,564	27·836	32	1,825	30·0	43·0	400
Bendigo	162·8	10,729	18·818	14	575	29·0	14·5	292
Geelong	162·1	16,933	44·608	9	200	1·9	6·7	439
Eastern Metropolitan	641·3	30,942	62·411	35	5,055	47·7	76·3	2,479
Gippsland (including Yallourn) ..	1,158·5	22,509	64·893	55	2,970	51·0	72·4	3,435
Midland	527·1	9,391	17·902	12	1,555	14·8	19·3	655
North Eastern	1,652·4	21,508	60·278	65	2,005	44·3	37·5	2,253
South Western	968·7	16,392	32·609	50	8,667	87·2	31·8	2,022
Total	5,732·8	355,258	1,014·717	305	33,897	315·5	351·9	13,181

BRANCH TRANSMISSION AND DISTRIBUTION.

Because of shortages of materials, conversion of the metropolitan system of supply from single-phase to standard three-phase was again restricted to the immediately essential work; only three substations were converted during the year.

The South-Western main transmission line (Geelong–Warrnambool) has been reconstructed for 66 kV as far as Terang and the last section (Terang–Warrnambool) is now in progress.

The transmission lines from Shepparton to Kyabram (66 kV) and Yallourn to Warragul (66 kV, operating temporarily at 22 kV) were completed, and a new main substation erected at Kyabram. Construction of the 66 kV line Yallourn–Leongatha is proceeding.

ACQUISITION OF SUPPLY UNDERTAKINGS.

The Elmore undertaking was acquired on the 2nd September, 1947, and arrangements made for the acquisition of the Broadford undertaking on the 31st August, 1948.

TRAMWAYS—BALLARAT, BENDIGO, AND GEELONG.

Consumers of electricity continue to bear the loss sustained in the operation of the three provincial city tramways systems—£78,722, as compared with £39,511 last year. Losses at Ballarat, Bendigo, and Geelong were £20,578, £32,220 and £25,924 respectively.

Total revenue was £143,878, an increase of £1,597 (1·1 per cent.). The number of passengers carried—15,852,942—increased by 170,081 (1·1 per cent.). Total expenditure of £222,600 increased by £40,808 (22·4 per cent.); this is directly attributable to the shorter working week and the general upward trend of wages and materials. In view of these substantially higher costs, a submission was placed before the Government on 20th August, 1948, that fares in all three cities be increased.

BRIQUETTE PRODUCTION AND DISTRIBUTION.

	tons
1927–28	121,828
1932–33	307,952
1937–38	416,545
1942–43	414,959
1947–48	**545,236**

Production, which was again confined to industrial types, was 55,000 tons higher than the previous year when strikes caused a substantial curtailment of output. By-product electricity amounted to 98·8 million kWh, of which 67·1 million kWh were delivered to the State supply system, the remainder being used at the factory.

Distribution—

Sales (excluding Commission Generating Stations—331,929 tons)	204,873 tons
Revenue	£325,181
Expenditure	£343,272
Loss	£18,091

Loss on operations (£18,091) is an improvement on the previous year (£43,433). Because of Commonwealth price fixation policy, the Commission was not until late in 1947 in the position to meet higher production costs by increasing briquette prices. On the 1st January, 1948, the price for all briquettes f.o.r. Yallourn was increased to 24s. 6d. per ton. As from the 1st October, 1947, the prices of briquettes sold at metropolitan and other depots were increased to the extent of the higher railway freights charged to the Commission from that date.

The Victorian State Coal Committee representing the Joint Coal Board continues to allocate output between the Commission's generating stations and industrial users. There is still no prospect of early resumption of domestic sales.

PUBLIC SAFETY AND OTHER REGULATORY RESPONSIBILITIES.

Electric Light and Power Act 1928.—At the close of the financial year 38 municipal councils and 23 companies or persons were operating local electricity supply undertakings under the provisions of this Act.

The Governor in Council approved the following Orders in Council :—

(*a*) Authorizing Supply of Electricity—

Order No.	Undertakers.	Area of Supply.
257	Box Hill City Council	Short extension (6·6 kV) within the City of Camberwell. (Additional Link with Commission's Transmission System)
258	Northcote City Council	Short extension (6·6 kV) within the City of Heidelberg. (Additional Link with Commission's Transmission System)
259	Swan Hill Shire Council	Portions of Shire of Swan Hill and portion of Shire of Kerang
260	Otto Adolph Hoffmann	Township of Walwa

(*b*) Revoking Orders in Council—

Order No.	Undertakers.	Area of Supply.	Reason for Revocation.
139	The Elmore Electric Light and Power Company Limited	Portion of Parish of Elmore and Diggora	Undertaking transferred to State ownership on 2nd September, 1947

Inspections were made of 25 electricity supply undertakings in addition to newly installed generating plant and high tension systems ; complaints of unsatisfactory service were also investigated.

Electricity supply authorities which have adopted the multiple-earthed neutral system of protection were granted further extensions of time, because of inability to procure labour and materials for completion of the work.

Extensions (totalling 865 kW) to generating plants at Edenhope, Kaniva, Murtoa, Nagambie, Natimuk, Orbost, Ouyen, Phillip Island, Rupanyup and Wycheproof were approved. Approval was also given to the conversion of the system of supply at Ouyen from direct current to alternating current, and to the Mildura City Council's plans for extension of supply to consumers in the Red Cliffs East district.

Licensing of Electrical Mechanics—Licences in force as at 30th June, 1948 :—Grade "A", 2,616 ; Grade " B1 ", 121 ; Grade " B ", 756 ; Grade " C ", 762.

Two licensing examinations (each including theory and practice) were held.

Special conditional permits were issued :—871 for periods not exceeding six months, and 487 for periods not exceeding twelve months.

Registration of Electrical Contractors.—At 30th June, 1948, 810 registrations were in force, 51 more than last year.

Electrical Approvals Board.—Under the Board's constitution, two of its members retire each year. This year Mr. W. H. Stock and Mr. C. F. Baker, representing the interests of fire underwriters and workers in the electrical trade respectively, were re-appointed for a further three years.

Electrolysis Mitigation.—The Technical Sub-Committee has continued its work of investigating electrolysis conditions and instituting remedial measures. While the number of faults recorded continues to decrease, many of the problems arising are of increasing complexity.

PERSONNEL.

Education and Training.—This year 156 Commission trainees are engaged on full-time studies at the University or Technical Colleges; of these, 131 are operating under the special plan for rehabilitation of Commission ex-servicemen under which Commonwealth facilities are supplemented by the Commission; also, 273 trainees are pursuing part-time courses having been granted leave without loss of pay.

Within the Commission, 5 graduates, 46 cadets, and 109 engineering assistants, are receiving special training; 306 men completed the course at the Training School for Linesmen; there are 288 apprentices principally in the engineering trades and 125 trainee tradesmen employed under the Commonwealth Rehabilitation Scheme.

The uniformly excellent progress of personnel engaged in these training and education courses is a continued source of satisfaction to the Commission.

Scholarships.—A provision has been made for scholarships—two at the University and four at senior technical schools—to be awarded annually to engineering cadets and apprentices.

Welfare and Amenities.—Good progress has been made in providing high standard living accommodation—kitchens, dining rooms, and canteens—at Kiewa, Yallourn, and elsewhere. A wide variety of recreational interests has been encouraged throughout the Commission, particularly at Kiewa and Yallourn.

Hospital and medical services at Yallourn are referred to earlier in this report. At Kiewa the Commission has appointed a Resident Doctor, Nurses, and First Aid Attendants. Pending the establishment of the proposed Tawonga District General Hospital, those residents in need of hospital treatment are being cared for by arrangement with the Yackandandah Bush Nursing Hospital.

The Y.M.C.A. is providing a much appreciated welfare service at the Yallourn Hostels and a mobile unit at Kiewa.

Safety.—Safety and accident prevention measures are centred in the Safety Officer and four regional Safety Supervisors who co-ordinate the work of sectional, branch, and departmental safety committees.

Special attention was given to safety education and first-aid training. In addition, many new preventive measures were introduced.

Statistics.—The numbers of staff and employees at the 30th June, 1948, compared with last year were as follows:—

Personnel.	30th June 1948.	30th June 1947.
Staff	3,763	3,186
Wages	8,331	7,026
Total	12,094	10,212

The total numbers employed at Yallourn and Kiewa were 3,510 and 1,266 respectively. To meet labour requirements for construction works at these locations, 75 displaced persons from Europe were employed, and under a "Group Nomination" arrangements have been made to employ 1,400 migrants from the United Kingdom. Of this number, 30 had arrived at the end of June.

Disposition of Wages Personnel.	Operation.	Construction.
Power Generation	950	1,399
Main Transmission Lines, Terminal Stations and Substations	335	362
Electricity Supply—Metropolitan Branch Distribution	273	102
Electricity Supply—Country Branches Distribution	390	470
Briquette Production and Distribution	426	..
Coal Winning—Yallourn	833	2
General Services and Workshops—Yallourn	912	294
General Services and Workshops—elsewhere	1,051	238
Tramways—Ballarat, Bendigo, Geelong	294	..
Total	5,464	2,867
Grand Total	8,331	

COMMISSIONERS.

Mr. Commissioner Andrew W. Fairley, C.M.G., was re-appointed by the Government as a Commissioner for the period from 9th March, 1948, to the 31st December, 1952.

Mr. Commissioner W. D. Chapman, M.C.E., M.I.C.E., M.I.E. Aust., was re-appointed by the Government as a Commissioner for a period of four years as from the 13th May, 1948.

HIGHER ORGANIZATION.

As related to the vast programme of works under construction, including the major developments at Kiewa, Yallourn and Morwell and to the appointment of Mr. E. Bate, M.C., B.Sc., Whit. Schol., A.M.I.E. Aust., as Chief Engineer to administer all engineering design, construction and associated activities, there has been a comprehensive re-organization of engineering departments. Separate departments have been established embracing Planning, Design and Construction, and Production.

This re-organization is now substantially completed and appointments have been made as follows :—

Deputy Chief Engineer	Mr. C. H. Kernot, M.I.E. Aust., M.Am.Soc.C.E., L.S.

Design and Construction Department.

Engineer for Design and Construction	Mr. W. Nelson, B.E., F.S.A.S.M., A.M.I.E. Aust.

Civil Engineering Branch.

Civil Engineer	Mr. A. L. Galbraith, B.C.E., A.M.I.E. Aust., A.M.I.C.E., A.M.Am.Soc.C.E.

Electrical Engineering Branch.

Electrical Engineer	Mr. E. L. Merigan, B.E.E., M.I.E. Aust.

Mechanical Engineering Branch.

Mechanical Engineer	Mr. F. H. Roberts, Dip. M. and E.E., A.M.I.E. Aust. F.I.F. (Lond.)

Drawing Office.

Chief Draughtsman	Mr. J. M. Pollock, A.M.I.E. Aust.

Architectural Branch.

Chief Architect	Mr. W. E. Gower, A.R.A.I.A., A.R.V.I.A.

Production Department.

Engineer for Production	(To be appointed)
Engineer for Power Production	Mr. C. W. Saxton, A.M.I.E. Aust.
Engineer for Fuel Production	Mr. W. Morrison, B.Sc. (Eng.), M.I.C.E.

Planning Department.

Engineer for Planning	Mr. W. Thorn, M.E.E., M.I.E. Aust.

The authority of the General Superintendent, Yallourn, has been adjusted to meet the growing requirement of the territory. Under the Manager, he is now the principal authority on all Commission affairs at Yallourn, and is responsible to the Chief Engineer on engineering matters and the Secretary on administration.

Until the Government's intention regarding the establishment of a State Fuel Authority has been brought to fruition, the Commission has deferred its proposal to establish a full-scale research department, but has appointed Mr. G. E. Baragwanath, B.Sc., A.A.C.I., as Senior Research Officer.

STAFF.

The Commission regrets the death of two former officers who made valuable and important contributions in the development of the State's electrical and briquette undertakings. Both were very intimately associated with the planning, establishment and development of Yallourn :—

Mr. J. M. Bridge, B.Min.E., M.I.C.E., Mun.S., died on the 18th February, 1948, after serving from 1920 to 1934, as General Superintendent, Yallourn, and Engineer-in-Charge, Coal Supply, and from 1941 until the time of his death as Consultant in charge of the investigations of brown coal deposits in the Latrobe Valley.

Mr. A. R. La Gerche, A.R.I.B.A., F.R.A.I.A., who died on the 1st October, 1948, after serving from 1920 to 1938 as Chief Architect, was responsible for the basic planning of the Town of Yallourn.

The Commission records its high appreciation of the services rendered over long periods by Mr. R. J. McKay, B.E., A.C.S.E., Engineer-in-Charge, Coal Supply, who retired on 21st July, 1948, after 27 years of service with the Commission, and Mr. F. W. Robinson, A.I.C.A., F.A.I.S., Internal Auditor, who retired on 31st July, 1948, after 25 years of service. Mr. McKay continues to serve the Commission in a consultant capacity.

Other important staff retirements, appointments and promotions were :—

Retirements :—

Armstrong, W. R.	Publicity Officer.
Brain, G.	Briquette Depot Superintendent.
Cox, H.	Assistant High Tension Superintendent, Metropolitan Branch.
Knowles, E.	Assistant Superintendent, General Engineering Section, Works Division.
Miller, A. H.	Superintendent, General Engineering Section, Works Division.
Sawyer, F. P.	Estate Officer.
Welsh, W.	Superintendent of Salvage and Disposals.

Appointments and Promotions :—

Binder, H. A. L.	Assistant Manager, Personnel Division.
Boehm, C. B.	Briquette Production Engineer.
Boyle, C. E.	Supervisor, Thermal Stations.
Colclough, C. F.	Assistant Internal Auditor.
Cox, M. C.	Civil Construction Engineer.
Davies, S. W.	Power Station Superintendent, Newport.
Doolan, R. H.	Internal Auditor.
Garnett, R. K.	Comptroller of Stores.
Hassett, E. J.	Coal Production Engineer.
Howells, E. D.	Substation Engineer.
Lynch, H. W.	Overseer, Open Cut, Yallourn.
McKenzie, G. K.	Estate Officer.
Moses, A. D. H.	Amenities and Welfare Officer.
Richard, E. L.	Assistant Construction Engineer, Kiewa.
Robertson, L. H. S.	Publicity Officer.
Rusden, G. F.	Assistant Coal Production Engineer.
Sundquist, A. S. A.	Coal Supply Maintenance Engineer.
Watt, G. A.	Assistant Electrical Engineer.
Westmore, N. E.	Assistant Engineer, Coal Supply.
Wilson, J. R.	Deputy Engineer for Power Production.

The abnormal and exacting conditions arising from the war and its aftermath have imposed many and varied problems upon the Commission's organization. The planning and initial development of the vast programme of new works have been superimposed upon the task of overtaking war-time delays of construction and maintenance; added to this are the serious setbacks caused by the shortage of essential materials.

It is, therefore, with very real pleasure that Commissioners place on record their appreciation of the splendid contribution rendered to the community during the year under review through the loyal and efficient services of personnel in all sections of the undertaking.

We have the honour to be,

Sir,

Your obedient servants,

G. G. JOBBINS, Chairman.

ANDREW W. FAIRLEY, Commissioner.

W. D. CHAPMAN, Commissioner.

A. W. HENDERSON, Commissioner.

W. J. PRICE, Secretary.

26th November, 1948.

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 30th JUNE, 1948.

(Adjusted to the nearest £1.)

1947. £	EXPENDITURE—	£	£	1947. £	INCOME—	£	£
	Electricity Supply—				**Electricity Supply**		
262,960	Purchased Electricity	320,866		1,221,731	Bulk Supplies	1,380,415	
2,827,840	Generation, Transmission and Distribution	3,615,272		151,005	Public Lighting	155,020	
1,121,553	Interest	1,207,000		1,911,257	Domestic	2,128,041	
459,129	Depreciation	481,778		1,487,951	Industrial—General	1,664,543	
440,587	Administration and General Expense	575,121		38,600	Industrial—Mining	40,799	
				189,895	Traction	195,124	
5,112,069		6,200,037		827,815	Commercial	971,780	
31,057	Deduct—Electricity transferred to Works	41,094		6,940	Miscellaneous	7,367	
5,081,012			6,158,943	5,835,194			6,543,089
	Briquetting—				**Briquetting—**		
620,417	Manufacture and Distribution	807,670		273,042	Briquette Sales	300,654	
76,095	Interest	78,434		65,766	*Add*—Briquettes on hand end of year	90,293	
44,321	Depreciation	45,819					
23,493	Administration and General Expense	30,900		338,808		390,947	
764,326		962,823		17,097	*Deduct*—Briquettes on hand beginning of year	65,766	
399,182	Deduct—Briquettes transferred to Works	619,551		321,711			325,181
365,144			343,272				
	Brown Coal—				**Brown Coal—**		
51,449	Winning and Distribution	83,312		67,767	Brown Coal Sales	102,003	
2,494	Interest	6,047					
2,213	Depreciation	2,107					
2,396	Administration and General Expense	3,740					
58,552		95,206					
2,051	Deduct—Brown Coal transferred to Works	1,634					
56,501			93,572	67,767			102,003
	Tramways—				**Tramways—**		
151,218	Power and Traffic Expenses	186,687		141,308	Traffic Receipts	143,021	
6,906	Interest	7,165		973	Advertising, Rents, &c.	857	
23,668	Administration and General Expense	28,748					
181,792			222,600	142,281			143,878
93,453	Sinking Fund Contributions		118,783	25,177	Interest on Investments		25,404
28,289	Loan Flotation Expense		31,460	7,384	Miscellaneous Income		7,934
163,082	Provident Fund Contributions, Long Service Leave, &c.		157,988				
93,199	Pay Roll Tax		125,755				
87,854	Miscellaneous Expenses		108,188				
249,188	Profit—carried down				Loss—carried down		213,072
6,399,514			7,360,561	6,399,514			7,360,561
..	Loss—brought down		213,072	249,188	Profit—brought down		
100,000	Contingency Reserve						
100,000	Rural Development Reserve				Transfer in part of amount previously appropriated to—		
13,783	Special Retirements			54,000	Deferred Maintenance Reserve		143,000
89,405	Surplus for year		29,928		Rate Stabilization Reserve		100,000
303,188			243,000	303,188			243,000
				89,405	Surplus for year		29,928
341,803	Accumulated Surplus—30th June		371,731	252,398	Accumulated Surplus—beginning of year		341,803
341,803			371,731	341,803			371,731

Sale of Electrical Appliances.—The operating accounts include in respect of this function

	Revenue.	*Expenditure.*
1946–47	£113,681	£108,378
1947–48	£192,054	£182,926

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL BALANCE-SHEET AS AT 30th JUNE, 1948.

(Adjusted to nearest £1.)

LIABILITIES.

1947. £		£	£
	Capital Liabilities—		
18,356,639	Victorian Government Advances	18,361,315	
2,099,180	*Deduct*—Redeemed or cancelled securities	2,264,151	
16,257,459*		16,097,164*	
	Debentures and Inscribed Stock—		
7,182,000	Issued by Commission	11,102,000	
243,625	*Deduct*—Redeemed or cancelled Securities	230,206	
6,938,375†		10,871,794†	
24,949	Issued by Undertakings acquired by Commission (See Schedule)	21,117	
23,220,783			26,990,075
	Current and Accrued Liabilities—		
153,881	Sundry Creditors	308,863	
7,865	Sundry Creditors Retentions	13,798	
19,199	Consumers' Deposits	18,424	
111,161	Service Charges received in advance	116,892	
2,921	Unclaimed Wages	3,852	
181,856	Consumers' Advances for Construction	174,475	
33,014	Other Deposits and Trust Moneys	33,186	
75,421	Interest Accrued	116,865	
89,506	Salaries and Wages Accrued	179,100	
113,828	Miscellaneous Current and Accrued Liabilities	144,387	
258,282	Bank Overdraft	377,101	
1,046,937			1,486,943
	Reserves—		
12,646,603	Depreciation and Sinking Fund	13,788,323	
1,002,562	Contingency	1,002,561	
196,000	Deferred Maintenance	53,000	
250,000	Rate Stabilization	150,000	
1,200,000	Rural Development	1,200,000	
390,839	General	372,138	
15,686,004			16,566,022
341,803	Profit and Loss Account		371,731
40,295,527			45,414,771

* Of these totals the undermentioned amounts are deemed to have been raised overseas and to be repayable in Sterling—

30th June, 1948 .. £6,665,063
30th June, 1947 .. £6,668,455

† These totals include the undermentioned amounts raised in London and repayable in Sterling—

30th June, 1948 .. £861,293
30th June, 1947 .. £877,263

ASSETS.

1947. £		£	£
	Fixed Capital—		
1,521,689	Coal Production	1,832,324	
1,729,560	Briquette Production	1,740,794	
8,665,270	Power Production—Thermal Stations, &c.	8,789,816	
2,258,644	Hydro Stations	2,382,960	
6,931,133	Transmission Systems	7,205,912	
7,944,547	Distribution Systems	8,588,945	
185,220	Tramways	189,466	
3,738,911	General	4,119,351	
3,598,939	Construction Work in Progress	5,793,223	
36,573,913		40,612,791	
113,765	*Deduct*—Proportion of cost of extensions payable by Consumers	119,642	
36,460,148			40,523,149
	Current and Accrued Assets—		
42,400	Cash on hand and in transit	39,312	
520,004	Sundry Debtors	697,263	
1,284,547	Materials and Supplies	1,741,357	
22,498	Advances	41,514	
12,330	Investments	12,293	
9,060	Prepayments	13,817	
291,602	Miscellaneous Current and Accrued Assets	370,700	
2,182,441			2,916,256
	Suspense Debits—		
487,886	Overburden Removal and Disposal	715,609	
32,220	Preliminary Investigations	57,374	
111,923	Unamortized Loan Flotation Expense	94,380	
121,132	Work in Progress	179,608	
25,000	Acquisitions	25,000	
19,974	Miscellaneous	31,637	
798,135			1,103,608
	Reserve Funds—		
104,807	Sinking Funds	122,056	
749,996	Contingency Fund	749,702	
854,803			871,758
40,295,527			45,414,771

There is a Contingent Asset and a Contingent Liability in respect of securities lodged as bona fides under Contracts to the extent of {£323,908 at 30th June, 1948 / £134,959 at 30th June, 1947} held by the Bank on the Commission's behalf.

H. S. KILFOYLE, Chief Accountant.

R. LIDDELOW, Manager.
4th November, 1948.

AUDITOR-GENERAL'S CERTIFICATE.

In accordance with Section 32 of Act 3776 the accounts of the State Electricity Commission of Victoria have been audited.
In my opinion the above Balance-sheet presents a true and correct view of the affairs of the undertaking at the 30th June, 1948.

E. A. PEVERILL, Auditor-General.
18th November, 1948.

STATE ELECTRICITY COMMISSION OF VICTORIA.

SCHEDULE OF FIXED CAPITAL AS AT 30th JUNE, 1948.

(Adjusted to the nearest £1.)

—	Expenditure during 1947-48.	Total Expenditure 30/6/48.
	£	£
Coal Production—		
Yallourn	113,070	2,018,125
Briquette Production—		
Yallourn	61,294	1,885,089
Power Production—Thermal Stations, &c.—		
Geelong	2,510	352,007
Newport	659,640	4,442,016
Richmond	212	155,599
Yallourn	71,813	5,293,603
South Western—Hamilton (Internal combustion engine station)	3,676	12,477
Power Production—Hydro Stations—		
Kiewa	1,019,086	3,099,853
Sugarloaf	10,831	843,255
Transmission Systems—		
Main Transmission Systems	261,468	5,582,693
Ballarat Branch	5,635	67,584
Bendigo Branch	18,559	52,589
Eastern Metropolitan Branch	39,313	346,821
Geelong Branch	151	42,715
Gippsland Branch	55,218	508,855
Metropolitan Branch	..	13,339
Midland Branch	9,139	161,282
North-Eastern Branch	61,009	684,998
South-Western Branch	61,683	591,645
Distribution Systems—		
Ballarat Branch	32,253	305,215
Bendigo Branch	21,725	229,073
Eastern Metropolitan Branch	127,549	790,012
Geelong Branch	13,451	403,733
Gippsland Branch	82,746	678,480
Metropolitan Branch	233,160	4,949,869
Midland Branch	26,587	264,808
North-Eastern Branch	74,383	642,296
South-Western Branch	32,920	399,001
Yallourn	5,884	39,533
Tramway Systems—		
Ballarat Branch	1,921	52,534
Bendigo Branch	444	35,214
Geelong Branch	4,672	106,022
General—		
Ballarat Branch	641	33,421
Bendigo Branch	2,111	52,636
Eastern Metropolitan Branch	5,247	44,909
Geelong Branch	2,265	54,498
Gippsland Branch	10,041	56,870
Kiewa	251,862	427,652
Metropolitan Branch	28,541	796,289
Midland Branch	1,088	10,028
North-Eastern Branch	5,448	57,850
South-Western Branch	5,359	39,588
Yallourn	572,921	2,592,330
Head Office	422,860	1,426,385
	4,420,386	40,642,791
Deduct—Proportion of cost of extensions payable by Consumers	5,876	119,642
	4,414,510	40,523,149

Note.—Construction Work in Progress included in above figures is shown separately in the Balance-sheet—

At 30th June, 1947 .. .. £3,598,939.

At 30th June, 1948 .. .. £5,793,223.

STATE ELECTRICITY COMMISSION OF VICTORIA.

DEBENTURES AND INSCRIBED STOCK.

LOANS RAISED UNDER THE AUTHORITY OF THE STATE ELECTRICITY COMMISSION ACTS Nos. 4087 and 4512.

Loan No.	Current Loans Issued.	Amount Authorized to 30th June, 1948.	Rate.	Term.	Due.	Sinking Fund.	Redeemed to 30th June, 1948	Outstanding at 30th June, 1948.
	£	£	%	Yrs.		%	£ s. d.	£ s. d.
State Elec. Comm. of Vic., Loan No 1	600,000	600,000	3·5	20	1954	1	71,047 0 0	528,953 0 0
,, ,, ,, ,, ,, 2	382,000	382,000	3·5	20	1954	1	49,660 0 0	332,340 0 0
,, ,, ,, ,, ,, 3	100,000	100,000	4·0	15	1951	1	12,000 0 0	88,000 0 0
,, ,, ,, ,, ,, 5	900,000	900,000	4·25	10	1949	1	..	900,000 0 0
,, ,, ,, ,, ,, 6	200,000	200,000	4·25	10	1949	1	18,593 8 6	181,406 11 6
,, ,, ,, ,, ,, 7	150,000	150,000	4·25	15	1955	1	..	150,000 0 0
,, ,, ,, ,, ,, 8	250,000	250,000	3·8125	10	1950	1	22,882 4 11	227,117 15 1
,, ,, ,, ,, ,, 9	300,000	300,000	3·4375	16	1957	1	..	300,000 0 0
,, ,, ,, ,, ,, 10	1,000,000	1,000,000	3·375	10	1955	1	31,023 17 10	968,976 2 2
,, ,, ,, ,, ,, 11	150,000	150,000	3·3125	10	1956	1	1,500 0 0	148,500 0 0
,, ,, ,, ,, ,, 12	1,350,000	1,350,000	3·3125	10	1956	1	13,500 0 0	1,336,500 0 0
,, ,, ,, ,, ,, 13	500,000	500,000	3·3125	10	1957	1	5,000 0 0	495,000 0 0
,, ,, ,, ,, ,, 14	500,000	500,000	3·25	10	1957	1	5,000 0 0	495,000 0 0
,, ,, ,, ,, ,, 15	1,000,000	1,000,000	3·25	15	1962	1	..	1,000,000 0 0
,, ,, ,, ,, ,, 16	500,000	500,000	3·25	15	1962	1	..	500,000 0 0
,, ,, ,, ,, ,, 17	500,000	500,000	3·25	15	1963	1	..	500,000 0 0
,, ,, ,, ,, ,, 18	1,000,000	1,000,000	3·1875	10	1958	1	..	1,000,000 0 0
,, ,, ,, ,, ,, 19	720,000	720,000	3·1875	10	1958	1	..	720,000 0 0
,, ,, ,, ,, ,, 20	1,000,000	1,000,000	3·1875	10	1958	1	..	1,000,000 0 0
	11,102,000	11,102,000					230,206 11 3	10,871,793 8 9

ISSUED BY UNDERTAKINGS ACQUIRED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA

Municipality.	Loan No.	Actual Rate.	Rate Under Financial Emergency Act.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed since Date of Acquisition.	Outstanding at 30th June, 1948.
Bendigo Branch.		%	%	£		£ s. d.	£ s. d.	£ s. d.
Marong Shire	2	5⅞	5	1,700	1.7.31	1,591 17 11	789 18 3	801 19 8
Eaglehawk Borough ..	8	4¼	4¼	3,500	1.10.35	3,150 13 3	2,994 19 11	155 13 4
,, ,, ..	9	3¾	3¾	4,500	,,	4,345 9 8	2,504 4 7	1,841 5 1
				9,700		9,088 0 10	6,289 2 9	2,798 18 1
Eastern Metropolitan Branch.								
Healesville Shire ..	2	6	3⅞	8,000	1.4.33	6,215 0 0	4,890 0 0	1,325 0 0
,, ,, ..	3	6½	3⅞	2,000	,,	1,585 0 0	1,240 0 0	345 0 0
,, ,, ..	9	5¾	5	3,000	,,	2,728 11 2	1,325 5 8	1,403 5 6
Lilydale Shire ..	16	6½	3⅞	3,000	1 4.25	2,869 12 7	2,255 15 9	613 16 10
,, ,, ..	16	6½	3⅞	2,000	,,	1,913 1 7	1,503 17 0	409 4 7
				18,000		15,311 5 4	11,214 18 5	4,096 6 11
Gippsland Branch.								
Maffra Shire	1	4¾	4¾	6,500	1.9.24	5,660 0 11	4,198 15 9	1,461 5 2
Midland Branch.								
Kyneton Shire ..	3	5¾	3⅞	12,000	1.10 28	10,830 0 0	7,520 0 0	3,310 0 0
Newham and Woodend Shire	2	5	5	750	1.8.29	750 0 0	300 0 0	450 0 0
				12,750		11,580 0 0	7,820 0 0	3,760 0 0
North-Eastern Branch.								
Mansfield Shire ..	6	6	5	1,200	1.6.28	1,200 0 0	..	1,200 0 0
Towong Shire	1	4½	4⅛	6,500	1.11.40	4,565 0 0	2,287 2 2	2,277 17 10
Wangaratta Borough ..	8	6½	4¾	6,500	12.3.27	6,078 12 8	4,550 10 11	1,528 1 9
,, ,, ..	9	6	4¼	1,500	,,	1,412 2 5	1,070 3 9	341 18 8
Yea Shire	3	6¼	5	6,000	1.5.45	3,390 19 7	757 0 8	2,633 18 11
,, ,, ...	4	5¾	5	500	,,	292 19 3	59 1 7	233 17 8
,, ,, ...	5	5¾	5	1,000	,,	331 19 8	211 16 3	120 3 5
,, ,, ...	8	4¼	3⅞	1,200	,,	836 0 0	171 0 0	665 0 0
				24,400		18,107 13 7	9,106 15 4	9,000 18 2
				71,350		59,747 0 8	38,629 12 3	21,117 8 5

STATE ELECTRICITY COMMISSION OF VICTORIA.

TABULATION OF CAPITAL, REVENUE, AND OPERATING ACCOUNTS.

Year ended 30th June.	Capital.			Revenue.					Operating Expenditure including Writings Off, &c.	+ Surplus. — Deficit.	
	Capital Expenditure.	Loan Liability.	Reserves.	Electricity Supply.	Briquetting.	Tramways.	Miscellaneous.	Total.		Year.	To Date.
	£	£	£	£	£	£	£	£	£	£	£
1925	7,759,825	8,293,765	43,936	617,286	40,468	..	41,602	699,356	963,638	— 264,282	— 322,744
1926	9,032,464	10,120,794	67,616	713,252	122,379	..	19,476	855,107	1,125,077	— 269,970	— 592,714
1927	**10,742,104**	**11,849,698**	**262,942**	**975,362**	**179,184**	..	**16,124**	**1,170,670**	**1,367,324**	— **196,654**	— **789,368**
1928	12,762,939	13,567,546	493,935	1,262,787	192,256	..	10,698	1,465,741	1,463,868	+ 1,873	— 787,495
1929	14,530,684	15,126,107	833,618	1,427,751	226,186	..	7,858	1,661,795	1,657,181	+ 4,614	— 782,881
1930	**16,397,608**	**16,778,413**	**1,151,139**	**1,624,255**	**264,459**	..	**9,153**	**1,897,867**	**1,892,601**	+ **5,266**	— **777,615**
1931	18,553,592	19,286,428	1,593,462	2,234,756	276,930	30,971	2,236	2,544,893	2,562,846	— 17,953	— 795,568
1932	19,337,273	19,735,177	2,135,205	2,456,696	357,056	35,450	• 717	2,849,919	2,846,888	+ 3,031	— 792,537
1933	**19,667,259**	**19,668,146**	**2,823,912**	**2,577,547**	**313,435**	**34,180**	**97**	**2,925,259**	**2,921,830**	+ **3,429**	— **789,108**
1934	19,748,318	19,109,659	3,332,096	2,717,992	309,936	33,510	74	3,061,512	3,028,393	+ 33,119	— 755,989
1935	20,305,078	19,527,309	3,757,812	2,995,707	297,858	77,121	10,098	3,380,784	3,374,306	+ 6,478	— 749,511
1936	**20,866,242**	**18,806,748**	**4,380,047**	**3,164,703**	**348,650**	**78,207**	**8,180**	**3,599,740**	**3,572,012**	+ **27,728**	— **721,783**
1937	21,638,314	18,682,415	5,008,027	3,339,560	337,227	76,142	7,500	3,760,429	3,721,528	+ 38,901	— 682,882
1938	22,698,893	19,242,265	5,672,343	3,539,974	394,634	75,567	1,008	4,011,183	3,957,354	+ 53,829	— 629,053
1939	**24,268,880**	**19,422,927**	**6,449,707**	**3,685,107**	**377,022**	**78,664**	**1,099**	**4,141,892**	**4,020,992**	+ **120,900**	— **508,153**
1940	25,369,679	20,524,010	7,300,198	3,894,893	400,125	78,211	3,700	4,376,929	4,250,416	+ 126,513	— 381,640
1941	26,116,795	20,678,339	8,218,078	4,241,264	379,847	89,571	13,374	4,724,056	4,563,376	+ 160,680	— 220,960
1942	**26,955,737**	**20,523,266**	**9,256,460**	**4,657,450**	**330,756**	**109,955**	**55,488**	**5,153,649**	**5,069,227**	+ **84,422**	— **136,538**
1943	28,345,527	20,348,116	10,460,227	4,935,602	341,631	135,900	76,955	5,490,088	5,348,695	+ 141,393	+ 4,855
1944	29,695,740	20,164,482	11,547,016	5,101,631	316,847	143,086	67,216	5,628,780	5,503,908	+ 124,872	+ 129,727
1945	**31,297,130**	**20,997,826**	**12,902,334**	**5,259,881**	**329,428**	**146,605**	**63,247**	**5,799,161**	**5,739,953**	+ **59,208**	+ **188,935**
1946	33,622,088	20,927,313	14,448,315	5,605,333	341,761	146,503	66,588	6,160,185	6,096,722	+ 63,463	+ 252,398
1947	36,460,148	23,220,783	15,686,004	5,835,194	321,711	142,281	100,328	6,399,514	6,310,109	+ 89,405	+ 341,803
1948	**40,523,149**	**26,990,075**	**16,566,022**	**6,543,089**	**325,181**	**143,878**	**135,341**	**7,147,489**	**7,360,561**	+ **29,928***	+ **371,731**

* After transfers of £243,000 from Reserves.

STATE ELECTRICITY COMMISSION OF VICTORIA.

ELECTRICITY SALES—REVENUE—CONSUMER STATISTICS.

Year Ended 30th June.		Sales—kWh. (Millions).						Revenue.				Consumer Statistics—excluding Bulk Supply Areas.								
		Bulk Supplies.	Public Lighting.	Domestic.	Industrial including Traction.	Commercial.	Total.	Total.	Per kWh. Sold.			Population of Area of Supply.	Number of Consumers.	Percentage of Consumers to Population.	kWh. Sold per Consumer (Average).			Motors Connected.		Number of Farms Supplied.
									Domestic.	Industrial.	Commercial.				Domestic.	Industrial.	Commercial.	Number.	H.P.	
								£	*d.*	*d.*	*d.*									
1938		241·988	12·950	110·597	258·274	54·080	677·889	3,528,396	2·559	0·884	2·714	1,018,000	249,244	24·5	540	57,820	1,611	32,386	227,903	3,426
1939		**257·394**	**14·282**	**122·134**	**273·372**	**59·915**	**727·097**	**3,685,538**	**2·420**	**0·877**	**2·567**	**1,050,000**	**260,733**	**24·8**	**566**	**53,540**	**1,734**	**36,282**	**245,697**	**4,367**
1940		285·031	16·804	141·172	311·916	67·224	822·147	3,881,022	2·165	0·848	2·338	1,080,000	271,749	25·2	626	53,730	1,917	41,530	275,458	5,147
1941		311·546	16·516	155·726	367·438	73·547	924·773	4,241,264	2·059	0·819	2·262	1,104,000	284,373	25·8	658	56,920	2,081	46,114	299,988	5,771
1942		**369·236**	**10·509**	**173·951**	**441·734**	**78·168**	**1,073·598**	**4,657,452**	**1·973**	**0·800**	**2·112**	**1,123,000**	**292,341**	**26·0**	**703**	**62,300**	**2,245**	**50,465**	**322,283**	**6,131**
1943		404·121	11·694	192·067	483·305	87·821	1,179·008	4,935,602	1·869	0·785	1·908	1,141,000	296,717	26·0	756	65,920	2,626	54,285	345,924	7,032
1944		422·287	15·984	203·979	466·137	92·938	1,201·325	5,101,631	1·822	0·812	1·835	1,149,000	300,465	26·1	793	60,170	2,769	59,483	365,746	7,467
1945		**417·193**	**16·782**	**220·247**	**452·664**	**100·790**	**1,207·676**	**5,259,890**	**1·783**	**0·830**	**1·781**	**1,193,000**	**311,172**	**26·1**	**838**	**50,470**	**2,934**	**65,983**	**401,085**	**8,772**
1946		447·005	17·255	250·245	449·623	110·413	1,274·541	5,605,333	1·700	0·857	1·814	1,200,000	321,631	26·8	928	41,860	3,104	71,796	430,452	10,209
1947		449·380	17·614	285·596	486·994	104·539	1,344·123	5,835,194	1·606	0·846	1·900	1,253,000	339,286	27·1	1,015	38,330	2,769	77,735	454,901	11,680
1948		**506·780**	**18·106**	**339·025**	**535·138**	**122·448**	**1,521·497**	**6,543,089**	**1·506**	**0·852**	**1·905**	**1,300,000**	**355,258**	**27·3**	**1,151**	**37,498**	**3,132**	**84,361**	**481,408**	**13,181**
Electricity Supply Branches																				
Metropolitan (Inc. Metro. Bulk Supplies)	1948	**486·570**	**13·855**	**224·876**	**378·854**	**67·777**	**1,171·932**	**4,477,764**	**1·335**	**0·822**	**1·835**	**800,075**	**212,290**	**26·53**	**1,210**	**85,136**	**3,500**	**49,919**	**280,528**	**1,206**
	1947	431·947	13·611	199·143	349·649	56·913	1,051·263	4,042,652	1·406	0·810	1·842	777,435	206,633	26·58	1,098	84,620	2,988	46,367	270,751	995
Ballarat	**1948**	..	**0·453**	**7·777**	**14·684**	**4·922**	**27·836**	**183,266**	**2·344**	**0·887**	**2·250**	**55,240**	**14,564**	**26·36**	**665**	**31,242**	**2,385**	**3,526**	**19,030**	**400**
	1947	..	0·442	6·119	9·163	4·106	19·830	153,111	2·661	1·041	2·260	54,635	13,785	25·23	557	22,350	2,034	3,183	15,747	290
Bendigo	**1948**	..	**0·545**	**6·111**	**9·400**	**2·762**	**18·818**	**128,370**	**2·248**	**0·933**	**2·534**	**37,302**	**10,729**	**28·76**	**703**	**26,781**	**1,894**	**2,277**	**15,456**	**292**
	1947	..	0·508	4·706	8·319	2·370	15·903	112,640	2·554	0·954	2·472	35,418	10,086	28·48	584	26,409	1,779	2,124	14,625	262
Geelong	**1948**	..	**0·513**	**10·465**	**27·707**	**5·923**	**44·608**	**258,882**	**2·232**	**0·832**	**2·356**	**66,530**	**16,933**	**25·45**	**753**	**56,316**	**2,650**	**5,192**	**34,626**	**439**
	1947	..	0·493	8·521	25·820	4·953	39·787	233,416	2·474	0·829	2·388	63,880	16,255	25·45	640	60,186	2,290	4,974	33,203	397
Eastern Metrop'tn	**1948**	..	**0·806**	**36·883**	**12·638**	**12·084**	**62·411**	**396,498**	**1·532**	**1·181**	**1·751**	**83,008**	**30,942**	**37·28**	**1,491**	**8,271**	**3,683**	**3,250**	**20,954**	**2,479**
	1947	..	0·736	27·048	10·324	10·451	48·559	329,426	1·698	1·207	1·744	71,535	27,858	38·94	1,224	8,142	3,362	2,825	18,973	2,171
Gippsland (Inc. Y'lourn)	**1948**	..	**0·576**	**19·080**	**37·403**	**7·834**	**64·893**	**342,881**	**1·705**	**0·890**	**1·843**	**85,708**	**22,509**	**26·26**	**1,223**	**12,365**	**2,549**	**7,026**	**39,388**	**3,435**
	1947	..	0·534	14·832	34·685	6·699	56·750	304,581	1·866	0·895	1·872	80,589	20,740	25·74	1,046	12,696	2,312	6,454	35,339	3,133
Midland	**1948**	..	**0·313**	**5·460**	**8·396**	**3·733**	**17·902**	**123,246**	**2·220**	**1·037**	**2·045**	**38,995**	**9,391**	**24·08**	**772**	**17,312**	**2,411**	**1,920**	**12,104**	**655**
	1947	..	0·304	4·244	7·735	3·258	15·541	108,440	2·483	0·995	2·061	38,171	8,781	23·00	646	19,484	2,188	1,713	11,325	606
North Eastern (Inc. N.S.W. Bulk Supplies)	**1948**	**20·210**	**0·655**	**15·607**	**31·124**	**12·892**	**80·488**	**412,457**	**1·933**	**0·877**	**1·727**	**74,024**	**21,508**	**29·06**	**1,021**	**17,704**	**3,513**	**7,588**	**45,840**	**2,253**
	1947	17·433	0·614	11·109	28·593	12·238	69·987	363,668	2·217	0·882	1·652	73,186	19,907	27·20	793	18,948	3,521	6,815	42,613	2,002
South Western	**1948**	..	**0·390**	**12·766**	**14·932**	**4·521**	**32·609**	**217,926**	**1·870**	**1·047**	**2·514**	**59,130**	**16,392**	**27·72**	**1,087**	**8,717**	**1,878**	**3,663**	**13,482**	**2,022**
	1947	..	0·372	9·874	12·706	3·551	26·503	185,524	2·078	1·059	2·585	57,905	15,241	26·32	905	8,381	1,554	3,280	12,325	1,824
Miscellaneous	**1948**	..	..	..	..	..	..	**1,799**	..	..	..	..	..	..	..	..	..	..	..	..
	1947	..	..	..	..	..	..	1,736	..	..	..	..	..	..	..	..	..	..	..	..
Total	**1948**	**506·780**	**18·106**	**339·025**	**535·138**	**122·448**	**1,521·497**	**6,543,089**	**1·506**	**0·852**	**1·905**	**1,300,012**	**355,258**	**27·3**	**1,151**	**37,498**	**3,132**	**84,361**	**481,408**	**13,181**
	1947	449·380	17·614	285·596	486·994	104·539	1,344·123	5,835,194	1·606	0·846	1·900	1,252,754	339,286	27·1	1,015	38,330	2,769	77,735	454,901	11,680

Note.—Above figures do not include allowances for unread meters prior to 1941.

STATE ELECTRICITY COMMISSION OF VICTORIA.

STANDARD TARIFFS AS AT 1ST JULY, 1948.

Tariffs.	Residential and Commercial. Metropolitan.	Residential and Commercial. Provincial City and Town. (Ballarat, Bendigo, Geelong, and Large Towns.)	Residential and Commercial. Country. (Smaller Towns and Rural Areas.)	Farming. Farming Operations Only. All Extra Metropolitan Areas.	Industrial. Factories and Other Industrial Establishments. All Supply Areas.	Miscellaneous.
	1	2	3	4	5	6
TARIFFS FOR NON-RESIDENTIAL PREMISES.						
Residential Tariff (Domestic and Commercial Residential Premises)—						
Service charge a month for each assessable room	1s. 1d.	1s. 4d.	1s. 5d.			
Rate a kWh.	1·0d.	1·4d.	1·5d.			
Maximum overall rate a kWh.	6·0d.	6·0d.	6·0d.			
Lighting—						Tariffs for the following centres are the same as shown in Columns 2, 4, and 5, except the Residential Tariff:— Croydon, Heathmont, Ringwood. Tariffs for the following centres are the same as shown in Columns 3, 4, and 5 except the Residential Tariff:— Kilsyth, Montrose. Details of residential tariffs for above centres will be supplied on request.
Block Tariff—rates a kWh. (based on monthly consumption)	First 20 at 4·5d. Balance at 3·5d.	First 100 at 5·5d. Balance at 4·0d.	First 100 at 6·25d. Next 200 at 5·0d. Balance at 4·0d.		First 20 at 4·5d. Balance at 3·5d.	
Power and Heating—						
Block Tariff—rates a kWh. (based on monthly consumption)	First 200 at 2·25d. Next 4,800 at 1·35d. ,, 20,000 at 1·0d. Balance at 0·9d. 11 p.m.–7 a.m.—0·35d.	First 200 at 2·5d. Next 4,800 at 1·7d. ,, 20,000 at 1·1d. Balance at 0·9d. 10.30 p.m.–6.30 a.m.*—0·4d.	First 50 at 2·8d. Next 150 at 2·5d. ,, 4,800 at 1·7d. ,, 20,000 at 1·1d. Balance at 1·0d. 10 p.m.–6 a.m.—0·4d.		First 200 at 2·25d. Next 4,800 at 1·35d. ,, 20,000 at 1·0d. Balance at 0·9d. 11 p.m.–7 a.m.*—0·35d.	
Rental a month for each two-rate meter ..	5s.	5s.	5s.		5s.	
Power, Heating, and Lighting—	**Commercial General Service.**	**Commercial General Service.**	**Commercial General Service.**	**Farming General Service.**	**Industrial All-Purposes.**	
Block Tariff—rates a kWh. (based on monthly consumption)	First 20 at 4·5d. Next 980 at 3·5d. ,, 1,000 at 2·25d. ,, 3,000 at 2·0d. ,, 20,000 at 1·0d. Balance at 0·9d. 11 p.m.–7 a.m.—0·35d. (Power and Heating only.)	First 100 at 5·5d. Next 900 at 4·0d. ,, 4,000 at 2·5d. ,, 20,000 at 1·1d. Balance at 0·9d. 10.30 p.m.–6.30 a.m.*—0·4d. (Power and Heating only.)	First 100 at 6·25d. Next 200 at 5·0d. ,, 700 at 4·0d. ,, 4,000 at 2·5d. ,, 20,000 at 1·1d. Balance at 1·0d. 10 p.m.–6 a.m.—0·4d. (Power and Heating only.)	First 4 at 6·0d. Next 196 at 2·5d. ,, 4,800 at 1·7d. Balance at 1·1d. 10 p.m.–6 a.m.*—0·4d.	First 20 at 4·5d. Next 480 at 3·5d. ,, 4,500 at 2·1d. ,, 20,000 at 1·0d. ,, 100,000 at 0·9d. Balance at 0·8d. 11 p.m.–7 a.m.—0·35d. (See Note 2 below.)	
Rental a month for each two-rate meter ..	5s.	5s.	5s.	5s.	5s.	
Industrial Maximum Demand (See Note 3 below) **Power, Heating, and Lighting.**					18s. 9d. a month for each kW. of maximum demand plus 0·225d. a kWh. (500 kW. Minimum demand charge). Reset monthly.	
Commercial Cooking—Rate a kWh.	1·0d.	1·4d.	1·5d.			
Water Heating—Night Tariff Rate a kWh. ..	11 p.m.–7 a.m.—0·4d.	10.30 p.m.–6.30* a.m.—0·5d.	10 p.m.–6 a.m.—0·5d.	10 p.m.–6 a.m.*—0·5d.	11 p.m.–7 a.m.*—0·4d.	
Minimum Charge—a month	2s. 6d.	3s.	3s. 6d.	3s.	2s. 6d.	

* Prescribed hours for these tariffs are 10.30 p.m.–6.30 a.m. in Ballarat, Bendigo and Geelong. In other extra-metropolitan areas the hours are 10 p.m.–6 a.m.

NOTES—1. Details regarding the application of the above tariffs are shown in the Commission's published tariff schedules which are available on request.——2. A consumer adopting the Industrial All-Purposes Tariff must agree to pay a special minimum charge of £11 15s. per month.——3. The Industrial Maximum Demand Tariff is available only to consumers entering into a five-year agreement providing for high tension supply and for monthly payments based on the minimum demand indicated or half the stipulated rate of supply, whichever is the greater.

STATE OF VICTORIA.

ELECTRICITY SUPPLY UNDERTAKINGS AT 30TH JUNE, 1948.

SUMMARY.

—	Population.	Consumers.		*Kilowatt-hours Sold.	
		Number.	Percentage of Grand Total.	Number.	Percentage of Grand Total.
STATE ELECTRICITY COMMISSION OF VICTORIA—					
Metropolitan } excluding adjacent rural areas	797,604	213,261	42·22	681,788,928	47·42
Provincial Cities }	132,614	35,478	7·03	80,657,929	5·61
Country	369,794	106,519	21·09	252,270,101	17·54
TOTAL	1,300,012	355,258	70·34	1,014,716,958	70·57
OTHER UNDERTAKINGS—					
Metropolitan (receiving Bulk Supply from State Electricity Commission of Victoria)	443,997	123,129	24·38	395,926,252	27·54
Country (Local Undertakings)	109,720	26,721	5·28	27,199,467	1·89
TOTAL	553,717	149,850	29·66	423,125,719	29·43
GRAND TOTAL	1,853,729	505,108	100·00	1,437,842,677	100·00

* Retail sales to Victorian consumers by Electricity Supply undertakings.

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Cousumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Metropolitan.							
Brighton	Metro.	Melbourne	A.C., 3 ph. and 1 ph.				1.9.30
Broadmeadows (Fawkner and Glenroy and portions of North Essendon and Pascoe Vale only)	,,	,,	A.C., 3 ph.				1.8.22
Camberwell	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Caulfield	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Collingwood	,,	,,	A.C., 3 ph.				1.9.30
Essendon	,,	,,	A.C., 3 ph.				1.8.22
Fitzroy	,,	,,	A.C., 3 ph.				1.9.30
Hawthorn	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Kensington/Flemington	,,	,,	A.C., 3 ph.				1.8.22
Kew	,,	,,	A.C., 3 ph. and 1 ph.	788,612	209,627	1 and 5	1.9.30
Malvern	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Moorabbin	,,	,,	A.C., 3 ph.				1.9.30
Mordialloc	,,	,,	A.C., 3 ph.				1.9.30
Mulgrave (part)	,,	,,	A.C., 3 ph.				1.9.30
Oakleigh	,,	,,	A.C., 3 ph.				1.9.30
Prahran	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Richmond	,,	,,	A.C., 3 ph.				1.9.30
St. Kilda	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Sandringham	,,	,,	A.C., 3 ph.				1.9.30
South Melbourne	,,	,,	A.C., 3 ph.				1.9.30
Sunshine	,,	Sunshine	A.C., 3 ph.				1.3.27
City of Chelsea (Aspendale, Bonbeach, Carrum, Chelsea, and Edithvale) (excluding Rural)	E/M.	Chelsea	A.C., 3 ph.	8,826	3,575	1 and 5	31.12.44
East Oakleigh (portion only)	,,	Dandenong	A.C., 3 ph. and 1 ph.	121	45	1 and 5	19.7.26
Burwood (portion only)	,,	,,	A.C., 1 ph.	45	15	1 and 5	7.10.38
Ballarat.							
City of Ballarat (including Alfredton, Ballarat East, Ballarat North, Brown Hill, Canadian and Mt. Pleasant)	Ball.	Ballarat	A.C., 3 ph. D.C., 3 wire	42,630	11,386	2 and 5	1.7.34
Borough of Sebastopol	,,	,,	A.C., 3 ph.				(Mt. Clear 30.6.37)
Ballarat Shire (Wendouree only)	,,	,,	A.C., 3 ph.				
Mt. Clear	,,	,,	A.C., 1 ph.				

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Bendigo.							
City of Bendigo (including Golden Square, Long Gully, and White Hills)	Bend.	Bendigo ..	A.C., 3 ph. ..	32,984	9,707	2 and 5	1.7.34
Borough of Eaglehawk ..	,,	,, ..	A.C., 3 ph. and 1 ph.				1.2.36
Huntly Shire (portion only, including Epsom)	,,	,, ..	A.C., 3 ph. and 1 ph.				19.5.37 (Epsom 29.12.39)
Marong Shire (portion only, including Kangaroo Flat)	,,	,, ..	A.C., 3 ph. and 1 ph.				1.7.34
Strathfieldsaye Shire (portion only, including Bendigo East, Grassy Flat, Kennington and Spring Gully)	,,	,, ..	A.C., 3 ph. and 1 ph.				1.7.34
Geelong.							
City of Geelong	Geel.	Geelong ..	A.C., 3 ph., D.C., 3 wire	57,000	14,385	2 and 5	1.9.30 (Fyansford 10.10.38)
City of Geelong West ..	,,	,, ..	A.C., 3 ph. ..				
Newtown and Chilwell ..	,,	,, ..	A.C., 3 ph. ..				
Corio Shire (North Geelong, North Shore and Fyansford)	,,	,, ..	A.C., 3 ph. ..				
South Barwon Shire (Belmont, Grovedale and Highton)	,,	,, ..	A.C., 3 ph. ..				
Bellarine Shire (Whittington)	,,	,, ..	A.C., 3 ph. ..				
Country.							
Acheron	N/E.	Alexandra ..	A.C., 1 ph. ..	70	49	3, 4, and 5	24.11.37
Agnes	Gipps.	Foster ..	A.C., 1 ph. ..	50	18	3, 4, and 5	1.11.38
Airey's Inlet	S/W.	Lorne ..	A.C., 1 ph.* ..	85	44	3, 4, and 5	24.12.36
Airly	Gipps.	Sale ..	A.C., 1 ph. ..	100	33	3, 4, and 5	16.6.37
Alberton	Gipps.	Yarram ..	A.C., 3 ph. ..	300	48	3, 4, and 5	1.10.46
Alberton West	Gipps.	Yarram ..	A.C., 1 ph. ..	188	12	3, 4, and 5	18.8.47
Alexandra	N/E.	Alexandra ..	A.C., 3 ph. ..	1,000	375	3, 4, and 5	11.4.27
Allansford	S/W.	Warrnambool ..	A.C., 1 ph.* ..	400	68	3, 4, and 5	20.11.24
Allendale	Ball.	Ballarat ..	A.C., 3 ph. ..	100	22	3, 4, and 5	4.11.47
Altona	Metro.	Werribee ..	A.C., 3 ph. and 1 ph.	3,300	842	2, 4, and 5	9.12.24
Alvie	S/W.	Colac ..	A.C., 1 ph. ..	130	27	3, 4, and 5	15.10.24
Anglesea	S/W.	Lorne ..	A.C., 3 ph. and 1 ph.*	170	136	3, 4, and 5	21.12.36
Archie's Creek	Gipps.	Korumburra ..	A.C., 3 ph. and 1 ph.	255	69	3, 4, and 5	1.9.40
Ardmona	N/E.	Shepparton ..	A.C., 3 ph. and 1 ph.	200	170	3, 4, and 5	25.3.38
Ascot	Ball.	Ballarat ..	A.C., 3 ph. ..	35	23	3, 4, and 5	7.12.38
Aspendale Rural ..	E/M.	Chelsea ..	A.C., 3 ph. ..	18	7	3, 4, and 5	31.12.44
Avenel	N/E.	Seymour ..	A.C., 3 ph. and 1 ph.	400	79	3, 4, and 5	22.3.48
Avoca	Mid.	Maryborough	A.C., 3 ph. and 1 ph.	920	313	3, 4, and 5	1.8.40
Bacchus Marsh	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	2,715	744	3, 4, and 5	3.6.41
Baddaginnie	N/E.	Benalla ..	A.C., 1 ph. ..	100	31	3, 4, and 5	23.7.36
Badger Creek	E/M.	Healesville ..	A.C., 1 ph. ..	160	40	3, 4, and 5	1.4.33
Bairnsdale	Gipps.	Bairnsdale ..	A.C., 3 ph. and 1 ph.	4,500	1,369	2, 4, and 5	1.4.27
Bairnsdale Rural ..	Gipps.	Bairnsdale ..	A.C., 1 ph. ..	200	15	3, 4, and 5	13.2.36
Bald Hills	Ball.	Ballarat ..	A.C., 1 ph. ..	30	3	3, 4, and 5	13.7.38
Balintore	S/W.	Colac ..	A.C., 1 ph. ..	50	10	3, 4, and 5	1.6.37
Ballan	Ball.	Ballarat ..	A.C., 3 ph. and 1 ph.	945	215	3, 4, and 5	1.3.40
Ballarat Rural	Ball.	Ballarat ..	A.C., 3 ph. ..	150	29	3, 4, and 5	1.7.34
Ballendella	N/E.	Rochester ..	A.C., 3 ph. ..	160	84	3, 4, and 5	20.3.40
Balmattum	N/E.	Benalla ..	A.C., 1 ph. ..	34	9	3, 4, and 5	8.10.37
Bamawm	N/E.	Rochester ..	A.C., 3 ph. and 1 ph.	230	256	3, 4, and 5	19.12.45
Bamawm Extension ..	N/E.	Rochester ..	A.C., 3 ph. ..	(See Bamawm)		3, 4, and 5	23.2.48
Bandiana	N/E.	Wodonga ..	A.C., 3 ph. ..	(See Kiewa)		3, 4, and 5	12.4.39
Baranduda	N/E.	Wodonga ..	A.C., 3 ph. and 1 ph.	(See Kiewa)		3, 4, and 5	19.6.46
Baringhup	Mid.	Castlemaine ..	A.C., 3 ph. ..	30	2	3, 4, and 5	23.10.47
Barker's Creek	Mid.	Castlemaine ..	A.C., 3 ph. and 1 ph.	230	25	3, 4, and 5	15.12.44
Barnawartha	N/E.	Wodonga ..	A.C., 1 ph. ..	280	58	3, 4, and 5	7.10.27
Barpinba	S/W.	Colac ..	A.C., 1 ph.* ..	10	2	3, 4, and 5	8.6.44
Barrabool	Geel.	Geelong ..	A.C., 1 ph. ..	150	27	3, 4, and 5	10.12.45
Barwo	N/E.	Numurkah ..	A.C., 3 ph. ..	30	15	3, 4, and 5	24.4.45
Barwon Heads	Geel.	Queenscliff ..	A.C., 1 ph. ..	650	314	3, 4, and 5	6.9.24
Batesford	Geel.	Geelong ..	A.C., 1 ph. ..	150	24	3, 4, and 5	28.2.39
Bayles	Gipps.	Koo-wee-rup ..	A.C., 3 ph. and 1 ph.	230	99	3, 4, and 5	11.9.35
Bayswater	E/M.	Ringwood ..	A.C., 3 ph. and 1 ph.	1,082	321	3, 4, and 5	24.7.26
Beaconsfield	E/M.	Dandenong ..	A.C., 1 ph. ..	150	92	3, 4, and 5	18.6.28
Beeac	S/W.	Colac ..	A.C., 1 ph. ..	470	129	3, 4, and 5	21.5.24
Beechworth	N/E.	Beechworth ..	A.C., 3 ph. ..	2,600	578	3, 4, and 5	2.9.46
Belgrave	E/M.	Belgrave ..	A.C., 3 ph. and 1 ph.	2,347	1,100	2, 4, and 5	24.8.25
Bellbrae	Geel.	Geelong ..	A.C., 1 ph. ..	20	5	3, 4, and 5	9.8.44
Bena	Gipps.	Korumburra ..	A.C., 3 ph. and 1 ph.	365	117	3, 4, and 5	10.7.30
Benalla	N/E.	Benalla ..	A.C., 3 ph. ..	4,972	1,436	2, 4, and 5	1.5.26

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Benalla Rural	N/E.	Benalla	A.C., 1 ph.	128	53	3, 4, and 5	26.5.37
Bennison	Gipps.	Foster	A.C., 1 ph.	80	22	3, 4, and 5	29.10.38
Berwick	E/M.	Dandenong	A.C., 1 ph.	650	315	3, 4, and 5	7.5.28
Birregurra	S/W.	Colac	A.C., 1 ph.	410	141	3, 4, and 5	30.10.24
Bittern	E/M.	Frankston	A.C., 1 ph.	130	29	3, 4, and 5	22.12.37
Blampied	Ball.	Daylesford	A.C., 1 ph.	50	11	3, 4, and 5	23.4.47
Boisdale	Gipps.	Maffra	A.C., 1 ph.	520	170	3, 4, and 5	13.7.37
Bona Vista	Gipps.	Warragul	A.C., 1 ph.	104	38	3, 4, and 5	30.12.38
Bonegilla	N/E.	Wodonga	A.C., 3 ph.	40	19	3, 4, and 5	18.12.40
Bonnie Doon	N/E.	Alexandra	A.C., 1 ph.	270	48	3, 4, and 5	31.1.41
Bookar	S/W.	Camperdown	A.C., 1 ph.*	30	6	3, 4, and 5	10.8.37
Boolarra	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	420	82	3, 4, and 5	29.10.24
Boolarra South	Gipps.	Leongatha	A.C., 1 ph.	90	21	3, 4, and 5	1.8.40
Boronia	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	1,594	596	3, 4, and 5	23.1.27
Bostock's Creek	S/W.	Camperdown	A.C., 1 ph.*	50	13	3, 4, and 5	15.12.24
Bowen Vale	Mid.	Maryborough	A.C., 1 ph.	50	4	3, 4, and 5	10.5.40
Bowser	N/E.	Wangaratta	A.C., 3 ph.	92	9	3, 4, and 5	23.4.34
Braeside	Metro. and E/M.	Melbourne Dandenong	A.C., 3 ph. and 1 ph.	149	40	3, 4, and 5	27.6.30
Brandy Creek	Gipps.	Warragul	A.C., 1 ph.	67	18	3, 4, and 5	15.2.39
Briagolong	Gipps.	Maffra	A.C., 1 ph.	550	111	3, 4, and 5	5.3.37
Briar Hill	E/M.	Greensborough	A.C., 3 ph.	435	151	3, 4, and 5	12.5.26
Bridgewater	Bend.	Inglewood	A.C., 3 ph. and 1 ph.	500	128	3, 4, and 5	27.4.40
Bright	N/E.	Myrtleford	A.C., 3 ph.	1,570	238	3, 4, and 5	1.12.41
Broadmeadows	Metro.	Melbourne	A.C., 3 ph.	504	103	3, 4, and 5	18.11.35
Bruthen	Gipps.	Lakes Entrance	A.C., 1 ph.	610	123	3, 4, and 5	1.10.30
Buffalo River	N/E.	Myrtleford	A.C., 3 ph.	48	6	3, 4, and 5	24.1.45
Bulla	Mid.	Bacchus Marsh	A.C., 1 ph.	210	24	3, 4, and 5	10.11.36
Bullaharre	S/W.	Camperdown	A.C., 1 ph.*	21	12	3, 4, and 5	30.10.45
Bullock Swamp	S/W.	Colac	A.C., 1 ph.*	50	15	3, 4, and 5	12.9.24
Buln Buln	Gipps.	Warragul	A.C., 1 ph.	183	58	3, 4, and 5	1.12.30
Bundalaguah	Gipps.	Sale	A.C., 1 ph.	250	39	3, 4, and 5	13.11.36
Bundoora	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	146	46	3, 4, and 5	31.12.27
Bungaree	Ball.	Ballarat	A.C., 3 ph.	180	49	3, 4, and 5	14.5.40
Bung Bong	Mid.	Maryborough	A.C., 3 ph. and 1 ph.	24	8	3, 4, and 5	21.4.41
Buninyong	Ball.	Ballarat	A.C., 1 ph.	665	150	3, 4, and 5	14.1.37
Bunyip	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	1,000	142	3, 4, and 5	15.10.28
Burramine	N/E.	Yarrawonga	A.C., 1 ph.	90	26	3, 4, and 5	12.9.35
Burrumbeet	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	150	33	3, 4, and 5	15.12.47
Burwood (portion)	E/M.	Dandenong	A.C., 1 ph.	30	10	3, 4, and 5	7.10.38
Byrneside	N/E.	Shepparton	A.C., 1 ph.	65	42	3, 4, and 5	24.5.37
Caldermeade	Gipps.	Koo-wee-rup	A.C., 1 ph.	150	61	3, 4, and 5	6.9.35
Campbellfield	Metro.	Melbourne	A.C., 3 ph. and 1 ph.	384	54	3, 4, and 5	14.9.36
Campbell's Creek	Mid.	Castlemaine	A.C., 1 ph.	440	100	3, 4, and 5	28.11.41
Campbell's Forest	Bend.	Inglewood	A.C., 1 ph.	25	5	3, 4, and 5	22.3.48
Camperdown	S/W.	Camperdown	A.C., 3 ph.	3,600	900	2, 4, and 5	30.12.23
Camperdown Rural	S/W.	Camperdown	A.C., 3 ph. and 1 ph.	1,950	577	3, 4, and 5	9.1.36
Caramut	S/W.	Terang	A.C., 1 ph.*	170	42	3, 4, and 5	12.8.38
Carisbrook	Mid.	Maryborough	A.C., 3 ph. and 1 ph.	280	143	3, 4, and 5	24.11.37
Carlsruhe	Mid.	Kyneton	A.C., 1 ph.	64	4	3, 4, and 5	13.9.44
Carranballac	S/W.	Terang	A.C., 1 ph.*	60	6	3, 4, and 5	18.10.39
Carrum Rural	E/M.	Chelsea	A.C., 3 ph.	36	14	3, 4, and 5	31.12.44
Castlemaine	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	6,462	1,581	2, 4, and 5	31.12.29
Catani	Gipps.	Koo-wee-rup	A.C., 1 ph.	125	84	3, 4, and 5	27.10.36
Ceres	Geel.	Geelong	A.C., 1 ph.	270	38	3, 4, and 5	26.11.45
Chelsea Rural	E/M.	Chelsea	A.C., 3 ph.	54	22	3, 4, and 5	31.12.44
Chewton	Mid.	Castlemaine	A.C., 3 ph.	670	105	3, 4, and 5	23.9.38
Chiltern	N/E.	Rutherglen	A.C., 3 ph.	1,200	192	3, 4, and 5	1.9.26
Chocolyn	S/W.	Camperdown	A.C., 1 ph.	20	7	3, 4, and 5	14.1.38
Clarkefield	Mid.	Bacchus Marsh	A.C., 1 ph.	15	3	3, 4, and 5	13.3.45
Clayton	Metro. and E/M.	Melbourne Dandenong	A.C., 3 ph. and 1 ph.	1,100	326	3, 4, and 5	30.4.26
Clayton South	Metro.	Melbourne	A.C., 3 ph.	46	9	3, 4, and 5	10.11.44
Clematis	E/M.	Belgrave	A.C., 1 ph.	110	42	3, 4, and 5	24.8.34
Clifton Springs	Geel.	Queenscliff	A.C., 1 ph.	30	3	3, 4, and 5	15.12.26
Cloverlea	Gipps.	Trafalgar	A.C., 1 ph.	248	87	3, 4, and 5	7.4.30
Clunes	Ball.	Ballarat	A.C., 3 ph.	1,000	265	3, 4, and 5	9.2.38
Clydebank	Gipps.	Sale	A.C., 1 ph.	100	23	3, 4, and 5	9.4.36
Cobden	S/W.	Camperdown	A.C., 3 ph. and 1 ph.*	760	288	3, 4, and 5	26.3.24
Cobram	N/E.	Cobram	A.C., 3 ph.	1,050	355	3, 4, and 5	1.10.28
Cobrico	S/W.	Camperdown	A.C., 1 ph.*	20	3	3, 4, and 5	22.12.38
Coghill's Creek	Ball.	Ballarat	A.C., 1 ph.	25	12	3, 4, and 5	7.2.46
Colac	S/W.	Colac	A.C., 3 ph. and 1 ph.	6,500	1,938	2, 4, and 5	1.9.23
Colac Rural	S/W.	Colac	A.C., 3 ph. and 1 ph.	2,370	683	3, 4, and 5	9.1.36
Coldstream	E/M.	Healesville	A.C., 3 ph. and 1 ph.	121	43	3, 4, and 5	1.7.33
Coleraine	S/W.	Hamilton	A.C., 3 ph. and 1 ph.*	1,000	286	3, 4, and 5	1.7.46
Condah Swamp	S/W.	Port Fairy	A.C., 1 ph.	80	16	3, 4, and 5	18.10.45
Congupna	N/E.	Shepparton	A.C., 3 ph.	58	20	3, 4, and 5	7.9.34
Connewarre	Geel.	Geelong	A.C., 1 ph.	150	14	3, 4, and 5	10.8.44
Coragulac	S/W.	Colac	A.C., 1 ph.*	100	22	3, 4, and 5	30.4.24
Cora Lynn	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	300	102	3, 4, and 5	9.8.35

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Cororooke	S/W.	Colac	A.C., 3 ph. and 1 ph.*	400	84	3, 4, and 5	27.3.24
Corunnun	S/W.	Colac	A.C., 1 ph.	20	6	3, 4, and 5	12.7.44
Couangalt	Mid.	Bacchus Marsh	A.C., 1 ph.	63	5	3, 4, and 5	1.8.37
Cowwarr	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	375	99	3, 4, and 5	8.11.24
Craigieburn	Metro.	Melbourne	A.C., 3 ph.	152	28	3, 4, and 5	18.7.42
Cranbourne	E/M.	Dandenong	A.C., 1 ph.	500	191	3, 4, and 5	12.9.28
Cressy	S/W.	Colac	A.C., 1 ph.	300	74	3, 4, and 5	19.11.41
Creswick	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	1,690	390	3, 4, and 5	24.11.37
Crib Point	E/M.	Frankston	A.C., 1 ph.	610	179	3, 4, and 5	23.8.29
Crossley	S/W.	Port Fairy	A.C., 1 ph.*	80	22	3, 4, and 5	16.3.38
Croydon	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	2,400	1,165	6	1.4.25
Cudgee	S/W.	Warrnambool	A.C., 1 ph.*	40	14	3, 4, and 5	7.12.38
Curlewis	Geel.	Queenscliff	A.C., 1 ph.	80	18	3, 4, and 5	21.9.46
Dalmore	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	150	36	3, 4, and 5	29.1.37
Dalyston	Gipps.	Korumburra	A.C., 1 ph.	180	47	3, 4, and 5	15.11.40
Dandenong	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	6,000	2,130	2, 4, and 5	1.10.23
Darley	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	(See Bacchus Marsh)		3, 4, and 5	9.9.40
Darlington	S/W.	Camperdown	A.C., 1 ph.*	70	15	3, 4, and 5	22.4.38
Darnum	Gipps.	Trafalgar	A.C., 3 ph.	260	56	3, 4, and 5	20.12.24
Dawson	Gipps.	Maffra	A.C., 1 ph.	30	6	3, 4, and 5	16.4.37
Daylesford	Ball.	Daylesford	A.C., 3 ph.	3,175	896	2, 4, and 5	31.10.40
Daylesford Rural	Ball.	Daylesford	A.C., 3 ph.	(See Daylesford)		3, 4, and 5	21.12.44
Deer Park	Metro.	Sunshine	A.C., 3 ph.	593	110	3, 4, and 5	14.2.29
Deer Park Rural	Mid.	Bacchus Marsh	A.C., 1 ph.	7	3	3, 4, and 5	18.5.48
Dennington	S/W.	Warrnambool	A.C., 3 ph. and 1 ph.*	400	86	3, 4, and 5	1.2.29
Derrinallum	S/W.	Camperdown	A.C., 1 ph.	200	83	3, 4, and 5	20.4.38
Devenish	N/E.	Yarrawonga	A.C., 3 ph.	210	47	3, 4, and 5	14.2.40
Devon North	Gipps.	Yarram	A.C., 1 ph.	242	23	3, 4, and 5	31.7.46
Diamond Creek	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	535	157	3, 4, and 5	10.5.29
Digger's Rest	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	111	38	3, 4, and 5	15.3.29
Dingee	Bend.	Inglewood	A.C., 1 ph.	300	59	3, 4, and 5	9.11.44
Dingley	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	346	83	3, 4, and 5	10.10.29
Dixie	S/W.	Terang	A.C., 1 ph.*	20	4	3, 4, and 5	24.9.45
Donnybrook	E/M.	Greensborough	A.C., 1 ph.	226	22	3, 4, and 5	11.3.41
Dookie	N/E.	Shepparton	A.C., 1 ph.	280	75	3, 4, and 5	8.3.37
Driffield	Gipps.	Traralgon	A.C., 1 ph.	100	20	3, 4, and 5	6.4.38
Dromana	E/M.	Sorrento	A.C., 3 ph. and 1 ph.	680	438	3, 4, and 5	8.12.27
Drouin	Gipps.	Warragul	A.C., 3 ph.	1,502	379	3, 4, and 5	1.10.24
Drouin Rural	Gipps.	Warragul	A.C., 1 ph.	196	65	3, 4, and 5	13.11.28
Drouin West	Gipps.	Warragul	A.C., 1 ph.	70	19	3, 4, and 5	18.2.39
Drysdale	Geel.	Queenscliff	A.C., 1 ph.	1,250	236	3, 4, and 5	13.2.24
Dumbalk	Gipps.	Leongatha	A.C., 3 ph. and 1 ph.	150	74	3, 4, and 5	14.9.36
Dumbalk North	Gipps.	Leongatha	A.C., 1 ph.	100	86	3, 4, and 5	7.8.39
Dundonnell	S/W.	Camperdown	A.C., 1 ph.*	30	8	3, 4, and 5	22.4.47
Dunkeld	S/W.	Terang	A.C., 1 ph.	370	89	3, 4, and 5	10.8.39
Dunolly	Mid.	Maryborough	A.C., 3 ph.	657	203	3, 4, and 5	31.3.38
East Oakleigh (portion)	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	38	14	3, 4, and 5	19.7.26
Eastern View	S/W.	Lorne	A.C., 1 ph.*	45	15	3, 4, and 5	7.9.39
Echuca	N/E.	Echuca	A.C., 3 ph.	5,170	1,225	2, 4, and 5	10.11.24
Echuca Rural	N/E.	Echuca	A.C., 1 ph.	250	80	3, 4, and 5	12.11.36
Edithvale Rural	E/M.	Chelsea	A.C., 3 ph.	45	18	3, 4, and 5	31.12.44
Eildon Weir	N/E.	Alexandra	A.C., 1 ph.	115	22	3, 4, and 5	28.4.39
†Eldorado	N/E.	Wangaratta	A.C., 3 ph.	204	37	3, 4, and 5	1.4.39
Elingamite North	S/W.	Camperdown	A.C., 1 ph.*	12	4	3, 4, and 5	11.6.46
Elliminyt	S/W.	Colac	A.C., 1 ph.	(See Colac)		2, 4, and 5	1.7.24
Ellinbank	Gipps.	Warragul	A.C., 1 ph.	72	38	3, 4, and 5	9.9.36
Elmore	Bend.	Bendigo	A.C., 3 ph.	700	250	3, 4, and 5	2.9.47
Elphinstone	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	215	21	3, 4, and 5	4.11.38
Eltham	E/M.	Greensborough	A.C., 1 ph.	1,255	383	3, 4, and 5	12.8.26
Emerald	E/M.	Belgrave	A.C., 1 ph.	903	170	3, 4, and 5	7.8.34
Epping	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	293	107	3, 4, and 5	15.7.36
Euroa	N/E.	Euroa	A.C., 3 ph.	3,300	649	3, 4, and 5	20.3.28
Eurobin	N/E.	Myrtleford	A.C., 3 ph.	70	33	3, 4, and 5	1.8.44
Everton	N/E.	Myrtleford	A.C., 1 ph.	60	32	3, 4, and 5	8.8.45
Exford	Mid.	Bacchus Marsh	A.C., 1 ph.	(See Melton)		3, 4, and 5	20.12.39
Ferny Creek	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	332	50	3, 4, and 5	2.9.27
Fish Creek	Gipps.	Foster	A.C., 3 ph. and 1 ph.	370	144	3, 4, and 5	9.7.38
Flinders	E/M.	Mornington	A.C., 1 ph.	250	124	3, 4, and 5	28.10.38
Flynn	Gipps.	Traralgon	A.C., 1 ph.	200	53	3, 4, and 5	5.9.38
Foster	Gipps.	Foster	A.C., 3 ph. and 1 ph.	700	221	3, 4, and 5	30.4.38
Frankston	E/M.	Frankston	A.C., 3 ph. and 1 ph.	4,393	2,320	2, 4, and 5	21.2.28
Freeburgh	N/E.	Myrtleford	A.C., 3 ph.	20	1	3, 4, and 5	20.11.47
Freshwater Creek	Geel.	Geelong	A.C., 1 ph.	50	13	3, 4, and 5	30.4.41
Gainsborough	Gipps.	Warragul	A.C., 1 ph.	150	29	3, 4, and 5	28.9.36
Gapsted	N/E.	Myrtleford	A.C., 3 ph.	100	49	3, 4, and 5	13.4.44
Garfield	Gipps.	Koo-wee-rup	A.C., 1 ph.	675	122	3, 4, and 5	1.8.29
Garvoc	S/W.	Terang	A.C., 1 ph.*	150	22	3, 4, and 5	25.9.37
Geelengla	S/W.	Camperdown	A.C., 1 ph.*	12	4	3, 4, and 5	6.12.44
Geelong Rural	Geel.	Geelong	A.C., 3 ph. and 1 ph.	100	24	3, 4, and 5	10.10.38
Gelliondale	Gipps.	Yarram	A.C., 1 ph.	102	9	3, 4, and 5	23.1.47

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Girgarre	N/E.	Kyabram	A.C., 3 ph.	259	100	3, 4, and 5	19.5.38
Girgarre East	N/E.	Kyabram	A.C., 1 ph.	(See Girgarre)		3, 4, and 5	11.8.46
Gisborne	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	1,225	166	3, 4, and 5	1.10.28
Glen Alvie	Gipps.	Korumburra	A.C., 1 ph.	250	37	3, 4, and 5	23.12.40
Glen Forbes	Gipps.	Korumburra	A.C., 3 ph.	305	41	3, 4, and 5	11.3.43
Glengarry	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	230	97	3, 4, and 5	14.8.28
Glenormiston North	S/W.	Terang	A.C., 1 ph.	30	15	3, 4, and 5	21.6.46
Glenormiston South	S/W.	Terang	A.C., 3 ph. and 1 ph.*	100	21	3, 4, and 5	10.9.29
Glenthompson	S/W.	Terang	A.C., 1 ph.	220	58	3, 4, and 5	17.10.47
Glenvale	E/M.	Greensborough	A.C., 1 ph.	144	35	3, 4, and 5	12.4.40
Glen Waverley	E/M.	Dandenong	A.C., 1 ph.	350	112	3, 4, and 5	1.6.28
Gnarwarre	Geel.	Geelong	A.C., 1 ph.	150	6	3, 4, and 5	10.12.45
Gnotuk	S/W.	Camperdown	A.C., 1 ph.	60	17	3, 4, and 5	1.3.36
Gooram	N/E.	Euroa	A.C., 1 ph.	50	24	3, 4, and 5	11.5.39
Goorambat	N/E.	Benalla	A.C., 3 ph.	73	45	3, 4, and 5	19.2.40
Gordon	Ball.	Ballarat	A.C., 1 ph.	300	45	3, 4, and 5	29.5.40
Gormandale	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	200	78	3, 4, and 5	14.10.38
Grahamvale	N/E.	Shepparton	A.C., 1 ph.	(See Shepparton East)		3, 4, and 5	20.7.37
Grassy Spur	Gipps.	Foster	A.C., 1 ph.	90	39	3, 4, and 5	26.10.39
Greensborough	E/M.	Greensborough	A.C., 3 ph.	1,194	349	3, 4, and 5	23.3.26
Greenvale	Metro.	Melbourne	A.C., 3 ph.	108	20	3, 4, and 5	15.7.38
Hallam	E/M.	Dandenong	A.C., 1 ph.	202	82	3, 4, and 5	27.8.37
Hallora	Gipps.	Warragul	A.C., 1 ph.	53	16	3, 4, and 5	12.12.44
Hamilton	S/W.	Hamilton	A.C., 3 ph. and 1 ph.* D.C., 2 wire	7,180	1,835	2, 4, and 5	1.7.46
Hamilton Rural	S/W.	Hamilton	A.C., 3 ph. and 1 ph.*	200	6	3, 4, and 5	1.7.46
Hampton Park	E/M.	Dandenong	A.C., 1 ph.	258	73	3, 4, and 5	29.6.42
Harcourt	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	550	218	3, 4, and 5	9.4.33
Harkaway	E/M.	Dandenong	A.C., 1 ph.	168	54	3, 4, and 5	31.7.40
†Harrietville	N/E.	Myrtleford	A.C., 3 ph.	160	69	3, 4, and 5	29.6.40
Harrisfield	E/M.	Dandenong	A.C., 1 ph.	378	72	2, 4, and 5	22.10.35
Hastings	E/M.	Frankston	A.C., 3 ph. and 1 ph.	520	180	3, 4, and 5	28.3.27
Hawkesdale	S/W.	Port Fairy	A.C., 1 ph.*	220	19	3, 4, and 5	26.4.40
Hazelwood	Gipps.	Traralgon	A.C., 1 ph.	200	80	3, 4, and 5	9.9.36
Hazlewood North	Gipps.	Traralgon	A.C., 1 ph.	150	62	3, 4, and 5	21.12.37
Healesville	E/M.	Healesville	A.C., 3 ph. and 1 ph.	3,200	744	3, 4, and 5	1.4.33
Heatherton	Metro.	Melbourne	A.C., 3 ph.	39	7	3, 4, and 5	10.12.40
Heathmont	E/M.	Ringwood	A.C., 1 ph.	248	85	6	25.3.37
Hedley	Gipps.	Yarram	A.C., 1 ph.	100	11	3, 4, and 5	6.5.47
Hepburn Springs	Ball.	Daylesford	A.C., 3 ph.	630	285	3, 4, and 5	1.10.40
Herne's Oak	Gipps.	Traralgon	A.C., 1 ph.	450	120	3, 4, and 5	18.9.36
Hexham	S/W.	Terang	A.C., 1 ph.	120	18	3, 4, and 5	8.7.38
Heyfield	Gipps.	Maffra	A.C., 3 ph. and 1 ph.	1,000	253	3, 4, and 5	15.9.24
Hillside	Gipps.	Bairnsdale	A.C., 1 ph.	50	28	3, 4, and 5	29.5.36
Hoddle	Gipps.	Foster	A.C., 1 ph.	50	16	3, 4, and 5	2.10.47
Huntly	Bend.	Bendigo	A.C., 1 ph.	250	75	3, 4, and 5	21.11.44
Huon	N/E.	Wodonga	A.C., 1 ph.	(See Kiewa)		3, 4, and 5	12.4.39
Illowa	S/W.	Port Fairy	A.C., 1 ph.*	100	13	3, 4, and 5	30.9.37
Inglewood	Bend.	Inglewood	A.C., 3 ph.	1,100	267	3, 4, and 5	3.12.46
Inverloch	Gipps.	Korumburra	A.C., 1 ph.	460	177	3, 4, and 5	1.10.34
Iona	Gipps.	Koo-wee-rup	A.C., 1 ph.	413	29	3, 4, and 5	10.7.42
Irrewarra	S/W.	Colac	A.C., 1 ph.*	150	26	3, 4, and 5	23.2.26
Jack River	Gipps.	Yarram	A.C., 1 ph.	150	48	3, 4, and 5	31.7.46
Jancourt	S/W.	Camperdown	A.C., 1 ph.	50	4	3, 4, and 5	25.5.39
Janefield	E/M.	Greensborough	A.C., 1 ph.	33	11	3, 4, and 5	14.1.47
Jeetho	Gipps.	Korumburra	A.C., 1 ph.	150	16	3, 4, and 5	4.11.41
Jindivick	Gipps.	Warragul	A.C., 1 ph.	213	89	3, 4, and 5	23.8.38
Johnsonville	Gipps.	Lakes Entrance	A.C., 1 ph.	120	42	3, 4, and 5	24.1.36
Jordanville	E/M.	Dandenong	A.C., 1 ph.	4	1	3, 4, and 5	7.10.38
Joyce's Creek	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	80	4	3, 4, and 5	16.12.39
Jumbunna	Gipps.	Korumburra	A.C., 1 ph.	370	45	3, 4, and 5	24.10.30
Kalimna	Gipps.	Lakes Entrance	A.C., 1 ph.	140	21	3, 4, and 5	6.12.28
Kalkallo	E/M.	Greensborough	A.C., 1 ph.	37	9	3, 4, and 5	11.3.41
Kallista	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	400	191	3, 4, and 5	19.8.27
Kalorama	E/M.	Belgrave	A.C., 1 ph.	255	116	3, 4, and 5	31.5.34
Kangaroo Flat (portion)	Bend.	Bendigo	A.C., 1 ph.	50	12	3, 4, and 5	6.9.46
Kangaroo Ground	E/M.	Greensborough	A.C., 1 ph.	40	4	3, 4, and 5	27.2.45
Kardella South	Gipps.	Korumburra	A.C., 1 ph.	105	9	3, 4, and 5	23.9.36
Kariah	S/W.	Camperdown	A.C., 1 ph.*	30	7	3, 4, and 5	12.11.38
Katamatite	N/E.	Cobram	A.C., 1 ph.	240	56	3, 4, and 5	14.7.39
Katandra	N/E.	Shepparton	A.C., 1 ph.	270	188	3, 4, and 5	10.10.45
Katunga	N/E.	Numurkah	A.C., 3 ph.	20	12	3, 4, and 5	10.12.41
Keilor	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	392	96	3, 4, and 5	21.11.35
Kergunyah	N/E.	Wodonga	A.C., 1 ph.	88	53	3, 4, and 5	15.6.45
Kerrisdale	N/E.	Alexandra	A.C., 1 ph.	(See Yea)		3, 4, and 5	5.3.46
Keysborough	E/M.	Dandenong	A.C., 1 ph.	206	60	3, 4, and 5	21.8.41
Kialla East	N/E.	Shepparton	A.C., 1 ph.	35	22	3, 4, and 5	5.4.46
Kiewa	N/E.	Wodonga	A.C., 3 ph.	140	150	3, 4, and 5	12.4.39
Kilfeera	N/E.	Benalla	A.C., 1 ph.	(See Benalla Rural)		3, 4, and 5	24.12.41

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-In-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Killarney	S/W.	Port Fairy	A.C., 1 ph.*	80	14	3, 4, and 5	14.5.35
Kilmany South	Gipps.	Sale	A.C., 1 ph.	125	11	3, 4, and 5	1.7.39
Kilsyth	E/M.	Ringwood	A.C., 1 ph.	231	88	6	1.4.25
Kingston	Ball.	Daylesford	A.C., 1 ph.	200	39	3, 4, and 5	16.9.39
Kirkstall	S/W.	Port Fairy	A.C., 1 ph.*	80	9	3, 4, and 5	9.4.40
Kolora	S/W.	Terang	A.C., 1 ph.*	70	13	3, 4, and 5	21.3.25
Kongwak	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	330	119	3, 4, and 5	10.10.30
Koonwarra	Gipps.	Leongatha	A.C., 1 ph.	100	24	3, 4, and 5	24.9.40
Koo-wee-rup	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	1,100	268	3, 4, and 5	1.8.35
Koo-wee-rup North	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	182	27	3, 4, and 5	28.11.41
Koroit	S/W.	Port Fairy	A.C., 3 ph. and 1 ph.*	1,700	272	3, 4, and 5	1.12.28
Korongah	S/W.	Port Fairy	A.C., 1 ph.*	30	4	3, 4, and 5	4.5.38
Korrine	Gipps.	Korumburra	A.C., 1 ph.	45	11	3, 4, and 5	19.12.40
Korumburra	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	3,200	690	2, 4, and 5	1.12.24
Korumburra Rural	Gipps.	Korumburra	A.C., 1 ph.	100	46	3, 4, and 5	1.11.35
Korumburra South	Gipps.	Korumburra	A.C., 1 ph.	100	8	3, 4, and 5	1.12.44
Koyuga	N/E.	Echuca	A.C., 1 ph.	(See Echuca Rural)		3, 4, and 5	12.11.36
Kyabram	N/E.	Kyabram	A.C., 3 ph.	2,200	677	2, 4, and 5	1.12.26
Kyabram Rural	N/E.	Kyabram	A.C., 1 ph.	500	133	3, 4, and 5	6.10.28
Kyneton	Mid.	Kyneton	A.C., 3 ph. and 1 ph.	3,834	1,000	2, 4, and 5	1.10.29
Ky Valley	N/E.	Kyabram	A.C., 3 ph.	200	122	3, 4, and 5	27.7.40
Laanecoorie	Mid.	Maryborough	A.C., 3 ph.	68	12	3, 4, and 5	21.2.46
Lake Bolac	S/W.	Terang	A.C., 1 ph.	220	47	3, 4, and 5	5.8.38
Lake Gillear	S/W.	Warrnambool	A.C., 1 ph.*	50	7	3, 4, and 5	8.7.38
Lakes Entrance	Gipps.	Lakes Entrance	A.C., 3 ph. and 1 ph.	1,055	262	3, 4, and 5	19.12.28
Lancaster	N/E.	Kyabram	A.C., 1 ph.	118	32	3, 4, and 5	1.6.35
Lance Creek	Gipps.	Korumburra	A.C., 1 ph.	85	9	3, 4, and 5	12.4.46
Lancefield	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	795	163	3, 4, and 5	27.3.29
Lang Lang	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	850	175	3, 4, and 5	2.9.35
Langwarrin	E/M.	Frankston	A.C., 3 ph. and 1 ph.	200	64	3, 4, and 5	14.8.33
Lara	Geel.	Geelong	A.C., 3 ph. and 1 ph.	300	76	3, 4, and 5	1.9.30
Lara Lake	Geel.	Geelong	A.C., 3 ph. and 1 ph.	(See Lara)		3, 4, and 5	1.9.30
Lardner	Gipps.	Warragul	A.C., 1 ph.	130	37	3, 4, and 5	7.2.39
Larpent	S/W.	Colac	A.C., 1 ph.*	10	3	3, 4, and 5	20.12.44
Laverton	Metro.	Werribee	A.C., 1 ph.	548	103	3, 4, and 5	22.11.38
Learmonth	Ball.	Ballarat	A.C., 3 ph.	400	73	3, 4, and 5	19.3.38
Leigh Creek	Ball.	Ballarat	A.C., 1 ph.	55	18	3, 4, and 5	27.8.40
Lemnos	N/E.	Shepparton	A.C., 1 ph.	420	42	3, 4, and 5	1.12.38
Leneva	N/E.	Wodonga	A.C., 1 ph.	(See Kiewa)		3, 4, and 5	24 2.47
Leongatha	Gipps.	Leongatha	A.C., 3 ph.	2,000	709	2, 4, and 5	15.2.24
Leongatha Rural	Gipps.	Leongatha	A.C., 1 ph.	60	65	3, 4, and 5	1.8.28
Leongatha South	Gipps.	Leongatha	A.C., 1 ph.	150	51	3, 4, and 5	24.9.40
Leopold	Geel.	Queenscliff	A.C., 1 ph.	(See Drysdale)		3, 4, and 5	13.2.24
Lillico	Gipps.	Warragul	A.C., 1 ph.	158	40	3, 4, and 5	20.4.45
Lilydale	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	2,000	526	3, 4, and 5	1.4.25
Lindenow	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	250	57	3, 4, and 5	6.4.35
Lindenow South	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	150	36	3, 4, and 5	6.4.35
Linton	Ball.	Ballarat	A.C., 3 ph.	460	91	3, 4, and 5	7.9.39
Lismore	S/W.	Camperdown	A.C., 1 ph.	400	136	3, 4, and 5	26.4.38
Lismore Rural	S/W.	Camperdown	A.C., 1 ph.	750	212	3, 4, and 5	26.4.38
Loch	Gipps.	Korumburra	A.C., 1 ph.	600	167	3, 4, and 5	18.8.30
Lockington	N/E.	Rochester	A.C., 3 ph.	250	65	3, 4, and 5	7.8.47
Lockwood	E/M.	Belgrave	A.C., 1 ph.	207	103	3, 4, and 5	23.12.36
Longford	Gipps.	Sale	A.C., 3 ph.	50	4	3, 4, and 5	8.3.35
Longwarry	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	525	148	3, 4, and 5	11.10.28
Lorne	S/W.	Lorne	A.C., 3 ph. and 1 ph.*	1,070	457	3, 4, and 5	15.12.36
Lorne Rural	S/W.	Lorne	A.C., 1 ph.*	5	1	3, 4, and 5	15.7.47
Lovely Banks	Geel.	Geelong	A.C., 3 ph. and 1 ph.	100	7	3, 4, and 5	17.5.41
Lower Ferntree Gully	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	1,498	494	2, 4, and 5	24.8.25
Lower Plenty	E/M.	Greensborough	A.C., 1 ph.	456	137	3, 4, and 5	13.3.28
Lucknow	Gipps.	Bairnsdale	A.C., 3 ph.	150	79	2, 4, and 5	1.8.27
Lyndburst	E/M.	Dandenong	A.C., 3 ph.	112	27	3, 4, and 5	19.1.38
Lysterfield	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	200	45	3, 4, and 5	17.7.37
Macarthur	S/W.	Port Fairy	A.C., 1 ph.	350	103	3, 4, and 5	3.4.40
Macarthur Rural	S/W.	Port Fairy	A.C., 1 ph.	600	197	3, 4, and 5	3.4.40
Macedon	Mid.	Kyneton	A.C., 3 ph. and 1 ph.	1,471	335	3, 4, and 5	14.6.29
Maffra	Gipps.	Maffra	A.C., 3 ph.	3,000	731	2, 4, and 5	1.9.24
Maffra Rural	Gipps.	Maffra	A.C., 3 ph. and 1 ph.	310	71	3, 4, and 5	14.8.28
Maiden Gully	Bend.	Bendigo	A.C., 1 ph.	40	21	3, 4, and 5	18.4.47
Maindample	N/E.	Alexandra	A.C., 1 ph.	(See Bonnie Doon)		3, 4, and 5	20 5.41
Main Ridge	E/M.	Mornington	A.C., 1 ph.	151	23	3, 4, and 5	13 5.48
Majorca	Mid.	Maryborough	A.C., 3 ph.	70	6	3, 4, and 5	11.4.45
Maldon	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	1,220	294	3, 4, and 5	1.7.36
Malmsbury	Mid.	Kyneton	A.C., 3 ph. and 1 ph.	558	84	3, 4, and 5	22.12.37
Mandurang	Bend.	Bendigo	A.C., 1 ph.	100	22	3, 4, and 5	23.5.45
Mannerim	Geel.	Queenscliff	A.C., 1 ph.	20	2	3, 4, and 5	21.9.46
Mansfield	N/E.	Alexandra	A.C., 3 ph.	836	346	3, 4, and 5	1.6.28
Marcus	Geel.	Queenscliff	A.C., 1 ph.	20	4	3, 4, and 5	10.8.36
Mardan	Gipps.	Leongatha	A.C., 1 ph.	150	37	3, 4, and 5	31.7.36
Markwood	N/E.	Wangaratta	A.C., 3 ph.	96	48	3, 4, and 5	26.7.46
Marshall	Geel.	Geelong	A.C., 1 ph.	90	26	3, 4, and 5	6.10.39
Maryborough	Mid.	Maryborough	A.C., 3 ph.	6,580	1,770	2, 4, and 5	1.10.37

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Maryvale	Gipps.	Traralgon ..	A.C., 3 ph. and 1 ph.	200	44	3, 4, and 5	6.8.37
McCrae	E/M.	Sorrento ..	A.C., 3 ph. ..	331	189	3, 4, and 5	22.12.27
Meeniyan	Gipps.	Leongatha ..	A.C., 1 ph. ..	300	138	3, 4, and 5	14.9.36
Melton	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	420	147	3, 4, and 5	20.12.39
Melton South	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	(See Melton)		3, 4, and 5	31.1.40
Mernda	E/M.	Greensborough	A.C., 1 ph. ..	224	34	3, 4, and 5	28.9.37
Merriang	N/E.	Myrtleford ..	A.C., 3 ph. ..	(See Myrtleford)		3, 4, and 5	8.1.44
Merricks North	E/M.	Mornington ..	A.C., 3 ph. and 1 ph.	62	30	3, 4, and 5	24.5.40
Merrigum	N/E.	Kyabram ..	A.C., 3 ph. ..	350	162	3, 4, and 5	22.2.27
Metropolitan Farm (Werribee)	Metro.	Werribee ..	A.C., 3 ph. ..	313	42	3, 4, and 5	15.12.33
Metung	Gipps.	Lakes Entrance	A.C., 1 ph. ..	245	58	3, 4, and 5	23.12.35
Mickleham	Metro.	Melbourne ..	A.C., 3 ph. and 1 ph.	50	7	3, 4, and 5	12.6.39
Milawa	N/E.	Wangaratta ..	A.C., 3 ph. ..	100	48	3, 4, and 5	27.7.39
Miner's Rest	Ball.	Ballarat ..	A.C., 3 ph. ..	70	33	3, 4, and 5	14.2.38
Mirboo	Gipps.	Leongatha ..	A.C., 1 ph. ..	70	50	3, 4, and 5	7.8.39
Mirboo East	Gipps.	Leongatha ..	A.C., 1 ph. ..	70	15	3, 4, and 5	1.8.40
Mirboo North	Gipps.	Leongatha ..	A.C., 3 ph. and 1 ph.	700	224	3, 4, and 5	1.10.24
Moe	Gipps.	Trafalgar ..	A.C., 3 ph. ..	3,200	666	3, 4, and 5	23.9.23
Moe Rural	Gipps.	Trafalgar ..	A.C., 1 ph. ..	240	54	3, 4, and 5	14.7.30
Molesworth	N/E.	Alexandra ..	A.C., 1 ph. ..	(See Yea)		3, 4, and 5	5.3.46
Monbulk	E/M.	Belgrave ..	A.C., 3 ph. and 1 ph.	422	183	3, 4, and 5	30.11.36
Monegeetta	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	83	18	3, 4, and 5	3.5.29
Monomeith	Gipps.	Koo-wee-rup ..	A.C., 1 ph. ..	75	27	3, 4, and 5	17.1.36
Montmorency	E/M.	Greensborough	A.C., 1 ph. ..	600	245	3, 4, and 5	11.5.26
Montrose	E/M.	Ringwood ..	A.C., 3 ph. and 1 ph.	488	200	6	1.4.25
Moolap	Geel.	Queenscliff ..	A.C., 1 ph. ..	(See Drysdale)		3, 4, and 5	30.1.25
Moolort	Mid.	Maryborough	A.C., 1 ph. ..	66	5	3, 4, and 5	14.2.38
Mooroodue	E/M.	Frankston / Mornington	A.C., 3 ph. and 1 ph.	207	71	3, 4, and 5	2.3.25
Mooroolbark	E/M.	Ringwood ..	A.C., 1 ph. ..	94	29	3, 4, and 5	16.9.36
Mooroopna	N/E.	Shepparton ..	A.C., 3 ph. ..	1,750	372	3, 4, and 5	1.10.26
Morang South	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	264	49	3, 4, and 5	28.9.37
Mornington	E/M.	Mornington ..	A.C., 3 ph. and 1 ph.	3,600	921	2, 4, and 5	1.8.30
Mortlake	S/W.	Terang ..	A.C., 3 ph. and 1 ph.*	1,000	307	3, 4, and 5	16.5.24
Morwell	Gipps.	Traralgon ..	A.C., 3 ph. and 1 ph.	4,000	860	2, 4, and 5	1.4.26
Morwell Bridge	Gipps.	Traralgon ..	A.C., 1 ph. ..	350	110	3, 4, and 5	26.11.28
Mossiface	Gipps.	Lakes Entrance	A.C., 1 ph. ..	100	16	3, 4, and 5	1.10.30
Mountain View	Gipps.	Korumburra ..	A.C., 1 ph. ..	120	25	3, 4, and 5	14.6.40
Moyarra	Gipps.	Korumburra ..	A.C., 1 ph. ..	100	35	3, 4, and 5	26.6.30
Moyne View	S/W.	Port Fairy ..	A.C., 1 ph.* ..	30	5	3, 4, and 5	27.5.37
Mt. Dandenong	E/M.	Belgrave ..	A.C., 1 ph. ..	165	150	3, 4, and 5	20.6.33
Mt. Duneed	Geel.	Queenscliff ..	A.C., 1 ph. ..	100	16	3, 4, and 5	5.10.39
Mt. Eliza	E/M.	Frankston / Mornington	A.C., 3 ph. and 1 ph.	594	296	2, 4, and 5	21.2.28
Mt. Evelyn	E/M.	Ringwood ..	A.C., 1 ph. ..	770	286	3, 4, and 5	9.1.28
Mt. Martha	E/M.	Mornington ..	A.C., 3 ph. and 1 ph.	584	208	3, 4, and 5	1.8.30
Mt. Rowan	Ball.	Ballarat ..	A.C., 1 ph. ..	25	7	3, 4, and 5	27.2.47
Mt. Waverley	Metro. / E/M.	Melbourne / Dandenong	A.C., 3 ph. and 1 ph.	302	124	3, 4, and 5	1.6.28
Muckleford	Mid.	Castlemaine ..	A.C., 1 ph. ..	111	5	3, 4, and 5	18·1.45
Mulgrave	E/M.	Dandenong ..	A.C., 1 ph. ..	120	55	3, 4, and 5	25.8.47
Mumblin	S/W.	Terang ..	A.C., 1 ph.* ..	20	4	3, 4, and 5	24.9.45
Murchison	N/E.	Shepparton ..	A.C., 3 ph. ..	620	216	3, 4, and 5	30.11.45
Myer's Flat	Bend.	Bendigo ..	A.C., 1 ph. ..	30	11	3, 4, and 5	29.6.40
Myrniong	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	130	58	3, 4, and 5	27.5.46
Myrtlebank	Gipps.	Sale ..	A.C., 1 ph. ..	150	58	3, 4, and 5	3.3.38
Myrtleford	N/E.	Myrtleford ..	A.C., 3 ph. ..	900	393	3, 4, and 5	1.12.40
Nalangil	S/W.	Colac ..	A.C., 1 ph. ..	50	10	3, 4, and 5	19.12.24
Nanneella	N/E.	Rochester ..	A.C., 1 ph. ..	519	190	3, 4, and 5	17.10.38
Naringal	S/W.	Warrnambool ..	A.C., 1 ph. ..	20	10	3, 4, and 5	17.7.44
Narioka	N/E.	Numurkah ..	A.C., 3 ph. ..	(See Barwo)		3, 4, and 5	7.10.46
Nar-Nar-Goon	Gipps.	Koo-wee-rup ..	A.C., 1 ph. ..	460	111	3, 4, and 5	23.5.34
Narracan East	Gipps.	Trafalgar ..	A.C., 1 ph. ..	64	28	3, 4, and 5	23.7.40
Narre Warren	E/M.	Dandenong ..	A.C., 1 ph. ..	290	80	3, 4, and 5	13.11.28
Narre Warren North ..	E/M.	Dandenong ..	A.C., 1 ph. ..	325	107	3, 4, and 5	10.11.38
Nathalia	N/E.	Numurkah ..	A.C., 3 ph. ..	1,050	272	3, 4, and 5	1.10.31
Nayook	Gipps.	Warragul ..	A.C., 3 ph. and 1 ph.	83	22	3, 4, and 5	15.1.35
Neerim	Gipps.	Warragul ..	A.C., 1 ph. ..	202	46	3, 4, and 5	15.1.35
Neerim East	Gipps.	Warragul ..	A.C., 1 ph. ..	108	64	3, 4, and 5	21.12.36
Neerim Junction ..	Gipps.	Warragul ..	A.C., 1 ph. ..	159	44	3, 4, and 5	3.5.35
Neerim North	Gipps.	Warragul ..	A.C., 1 ph. ..	65	31	3, 4, and 5	11.4.38
Neerim South	Gipps.	Warragul ..	A.C., 1 ph. ..	532	212	3, 4, and 5	15.1.35
Newborough	Gipps.	Trafalgar ..	A.C., 1 ph. ..	500	83	3, 4, and 5	24.6.38
Newbridge	Bend.	Inglewood ..	A.C., 3 ph. ..	203	12	3, 4, and 5	23.12.46
New Gisborne	Mid.	Bacchus Marsh	A.C., 3 ph. ..	269	33	3, 4, and 5	1.3.29
Newlyn	Ball.	Daylesford ..	A.C., 3 ph. and 1 ph.	100	44	3, 4, and 5	14.7.44
Newlyn North	Ball.	Daylesford ..	A.C., 1 ph. ..	90	28	3, 4, and 5	22.5.47
Newry	Gipps.	Maffra ..	A.C., 3 ph. and 1 ph.	390	100	3, 4, and 5	25.10.26
Newstead	Mid.	Castlemaine ..	A.C., 3 ph. and 1 ph.	390	114	3, 4, and 5	20.4.37
Nicholson	Gipps.	Lakes Entrance	A.C., 1 ph. ..	70	4	3, 4, and 5	12.12.34
Nilma	Gipps.	Warragul ..	A.C., 1 ph. ..	200	94	3, 4, and 5	23.12.27
Nilma Rural	Gipps.	Warragul ..	A.C., 1 ph. ..	225	90	3, 4, and 5	20.4.45
Noble Park	E/M.	Dandenong ..	A.C., 3 ph. and 1 ph.	1,400	524	2, 4, and 5	5.12.24

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Noojee	Gipps.	Warragul	A.C., 1 ph.	236	82	3, 4, and 5	15.1.35
Nooramunga	N/E.	Benalla	A.C., 3 ph.	(See Goorambat)		3, 4, and 5	3.12.43
Noorat	S/W.	Terang	A.C., 3 ph. and 1 ph.*	300	101	3, 4, and 5	5.12.24
North Wonthaggi (portion only)	Gipps.	Korumburra	A.C., 1 ph.	50	7	3, 4, and 5	17.2.41
Notting Hill	E/M.	Dandenong	A.C., 1 ph.	280	53	3, 4, and 5	21.7.27
Numurkah	N/E.	Numurkah	A.C., 3 ph.	1,611	476	3, 4, and 5	1.10.31
Nyora	Gipps.	Korumburra	A.C., 1 ph.	330	64	3, 4, and 5	1.10.35
Oaklands Junction	Metro.	Melbourne	A.C., 1 ph.	90	7	3, 4, and 5	10.12.35
Ocean Grove	Geel.	Queenscliff	A.C., 1 ph.	550	245	3, 4, and 5	27.9.24
Officer	E/M.	Dandenong	A.C., 1 ph.	400	121	3, 4, and 5	12.4.28
Olinda	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	562	248	3, 4, and 5	30.9.27
Ondit	S/W.	Colac	A.C., 1 ph.*	15	7	3, 4, and 5	23.5.44
Orrvale	N/E.	Shepparton	A.C., 1 ph.	(See Shepparton East)		3, 4, and 5	20.2.36
Outtrim	Gipps.	Korumburra	A.C., 1 ph.	250	30	3, 4, and 5	13.11.39
Ovens	N/E.	Myrtleford	A.C., 3 ph.	72	56	3, 4, and 5	20.11.44
Oxley Flats	N/E.	Wangaratta	A.C., 3 ph.	(See Milawa)		3, 4, and 5	25.10.44
Pakenham	E/M.	Dandenong	A.C., 1 ph.	600	238	3, 4, and 5	18.6.28
Panmure	S/W.	Terang	A.C., 1 ph.*	200	30	3, 4, and 5	3.9.37
Parwan	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	60	17	3, 4, and 5	10.1.46
Paynesville	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	400	90	3, 4, and 5	25.2.38
Penshurst	S/W.	Terang	A.C., 1 ph.	720	175	3, 4, and 5	16.9.38
Penshurst Rural	S/W.	Terang	A.C., 1 ph.	500	113	3, 4, and 5	16.9.38
Picola	N/E.	Numurkah	A.C., 3 ph.	180	27	3, 4, and 5	1.11.40
Pine Lodge	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	(See Shepparton East)		3, 4, and 5	25.2.36
Pirron Yallock	S/W.	Colac	A.C., 1 ph.*	50	10	3, 4, and 5	21.12.36
Plenty	E/M.	Greensborough	A.C., 1 ph.	270	64	3, 4, and 5	28.11.45
Point Cook	Metro.	Werribee	A.C., 3 ph. and 1 ph.	32	4	3, 4, and 5	1.7.40
Point Lonsdale	Geel.	Queenscliff	A.C., 3 ph. and 1 ph.	350	224	3, 4, and 5	30.12.23
Pomborneit	S/W.	Camperdown	A.C., 1 ph.*	90	15	3, 4, and 5	1.9.26
Pomborneit North	S/W.	Camperdown	A.C., 1 ph.	100	27	3, 4, and 5	1.9.26
Poowong	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	500	137	3, 4, and 5	11.9.30
Poowong East	Gipps.	Korumburra	A.C., 1 ph.	200	44	3, 4, and 5	17.10.38
Poowong North	Gipps.	Korumburra	A.C., 1 ph.	120	9	3, 4, and 5	2.5.45
Port Albert	Gipps.	Yarram	A.C., 3 ph. and 1 ph.	200	68	3, 4, and 5	29.11.46
Portarlington	Geel.	Queenscliff	A.C., 1 ph.	1,000	262	3, 4, and 5	27.2.24
Port Fairy	S/W.	Port Fairy	A.C., 3 ph. and 1 ph.*	2,000	568	3, 4, and 5	21.12.28
Port Fairy Rural	S/W.	Port Fairy	A.C., 1 ph.	947	290	3, 4, and 5	10.11.30
Port Franklin	Gipps.	Foster	A.C., 1 ph.	150	37	3, 4, and 5	23.7.38
Portsea	E/M.	Sorrento	A.C., 3 ph.	440	178	2, 4, and 5	1.10.27
Port Welshpool	Gipps.	Foster	A.C., 3 ph. and 1 ph.	160	61	3, 4, and 5	31.3.47
Powlett River (portion only)	Gipps.	Korumburra	A.C., 1 ph.	60	13	3, 4, and 5	17.1.41
Puckapunyal	N/E.	Seymour	A.C., 3 ph.	(See Seymour Rural)		3, 4, and 5	2.10.44
Queenscliff	Geel.	Queenscliff	A.C., 3 ph.	3,150	643	2, 4, and 5	30.12.23
Ranceby	Gipps.	Korumburra	A.C., 1 ph.	60	8	3, 4, and 5	23.6.41
Raywood	Bend.	Inglewood	A.C., 3 ph. and 1 ph.	400	55	3, 4, and 5	3.7.40
Red Bluff	N/E.	Wodonga	A.C., 3 ph.	(See Kiewa)		3, 4, and 5	14.1.47
Redesdale Junction	Mid.	Kyneton	A.C., 1 ph.	177	10	3, 4, and 5	27.3.47
Red Hill	E/M.	Mornington	A.C., 3 ph. and 1 ph.	546	124	3, 4, and 5	30.6.37
Research	E/M.	Greensborough	A.C., 1 ph.	100	48	3, 4, and 5	24.5.40
Rickett's Marsh	S/W.	Colac	A.C., 1 ph.*	30	14	3, 4, and 5	28.8.44
Riddell	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	505	86	3, 4, and 5	7.3.29
Ringwood	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	4,838	1,426	6	1.4.25
Rochester	N/E.	Rochester	A.C., 3 ph.	1,830	466	3, 4, and 5	1.8.35
Rockbank	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	130	27	3, 4, and 5	3.4.39
Rokeby	Gipps.	Warragul	A.C., 3 ph. and 1 ph.	50	9	3, 4, and 5	4.4.35
Romsey	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	838	166	3, 4, and 5	19.3.29
Rosebrook	S/W.	Port Fairy	A.C., 1 ph.*	150	10	3, 4, and 5	30.9.36
Rosebud	E/M.	Sorrento	A.C., 3 ph. and 1 ph.	835	821	3, 4, and 5	8.12.27
Rosedale	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	500	101	3, 4, and 5	15.8.27
Rowsley	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	63	12	3, 4, and 5	28.3.47
Rowville	E/M.	Dandenong	A.C., 1 ph.	72	23	3, 4, and 5	5.7.45
Rubicon	N/E.	Alexandra	A.C., 1 ph.	62	6	3, 4, and 5	4.9.27
Ruby	Gipps.	Leongatha	A.C., 1 ph.	70	44	3, 4, and 5	19.4.28
Rutherglen	N/E.	Rutherglen	A.C., 3 ph.	1,500	470	3, 4, and 5	15.10.26
Ryanston	Gipps.	Korumburra	A.C., 1 ph.	150	13	3, 4, and 5	14.1.41
Rye	E/M.	Sorrento	A.C., 3 ph.	516	248	3, 4, and 5	16.12.27
Sale	Gipps.	Sale	A.C., 3 ph.	6,000	1,389	2, 4, and 5	1.7.24
Sale Rural	Gipps.	Sale	A.C., 3 ph. and 1 ph.	220	144	3, 4, and 5	12.12.28
Sassafras	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	420	263	3, 4, and 5	9.7.27
Scarsdale	Ball.	Ballarat	A.C., 1 ph.	230	18	3, 4, and 5	5.9.39
Scoresby	E/M.	Dandenong	A.C., 1 ph.	330	41	3, 4, and 5	23.9.37
Scotsburn	Ball.	Ballarat	A.C., 1 ph.	75	38	3, 4, and 5	3.11.44
Seaford	E/M.	Frankston	A.C., 3 ph. and 1 ph.	1,110	438	2, 4, and 5	21.2.28
Sebastian	Bend.	Inglewood	A.C., 1 ph.	100	17	3, 4, and 5	3.2.48
Selby	E/M.	Belgrave	A.C., 1 ph.	175	72	3, 4, and 5	12.12.35

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Seymour	N/E.	Seymour	A.C., 3 ph.	3,000	831	2, 4, and 5	2.10.44
Seymour Rural	N/E.	Seymour	A.C., 1 ph.	120	60	3, 4, and 5	2.10.44
Shepparton	N/E.	Shepparton	A.C., 3 ph.	8,000	2,273	2, 4, and 5	1.1.25
Shepparton East	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	1,263	350	3, 4, and 5	25.2 36
Shepparton Rural	N/E.	Shepparton	A.C., 1 ph.	90	37	3, 4, and 5	17.8.39
Sherbrooke	E/M.	Belgrave	A.C., 1 ph.	187	51	3, 4, and 5	29.7.27
Shoreham	E/M.	Mornington	A.C., 1 ph.	40	13	3, 4, and 5	24 5.40
Silvan	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	311	72	3, 4, and 5	13.6.28
Skipton	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	625	146	3, 4, and 5	27.10.39
Smeaton	Ball.	Daylesford	A.C., 3 ph. and 1 ph.	175	50	3, 4, and 5	16.4.38
Smythesdale	Ball.	Ballarat	A.C., 1 ph.	280	21	3, 4, and 5	2.9 39
Somers	E/M.	Mornington	A.C., 3 ph. and 1 ph.	265	89	3, 4, and 5	24.12.35
Somerton	Metro.	Melbourne	A.C., 3 ph.	128	21	3, 4, and 5	22.7.38
Somerville	E/M.	Frankston	A.C., 3 ph. and 1 ph.	375	104	3, 4, and 5	19.12.26
Sorrento	E/M.	Sorrento	A.C., 3 ph. and 1 ph.	630	581	2, 4, and 5	1.10.27
South Belgrave	E/M.	Belgrave	A.C., 1 ph.	402	40	3, 4, and 5	17.2.37
South Ecklin	S/W.	Terang	A.C., 1 ph.*	25	4	3, 4, and 5	24.9.45
South Gisborne	Mid.	Bacchus Marsh	A.C., 1 ph.	(See Gisborne)		3, 4, and 5	1.5.37
South Purrumbete	S/W.	Camperdown	A.C., 1 ph.	27	9	3, 4, and 5	25.5.39
Southern Cross	S/W.	Port Fairy	A.C., 1 ph.*	20	6	3, 4, and 5	31.8.38
Springbank	Ball.	Ballarat	A.C., 1 ph.	50	6	3, 4, and 5	7.2.45
Springhurst	N/E.	Rutherglen	A.C., 3 ph.	229	67	3, 4, and 5	6.9.26
Springvale	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	2,000	967	2, 4, and 5	5.12.24
St. Albans	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	1,088	174	3, 4, and 5	14.2.30
St. James	N/E.	Yarrawonga	A.C., 3 ph.	260	40	3, 4, and 5	14.2.40
Stanhope	N/E.	Kyabram	A.C., 3 ph.	410	264	3, 4, and 5	14.6.38
Stavely	S/W.	Terang	A.C., 1 ph.*	23	2	3, 4, and 5	8.11.40
Stoneyford	S/W.	Camperdown	A.C., 1 ph.	30	13	3, 4, and 5	20.12.37
Stony Creek	Gipps.	Leongatha	A.C., 1 ph.	70	42	3, 4, and 5	14.9.36
Stratford	Gipps.	Maffra	A.C., 3 ph. and 1 ph.	1,000	219	3, 4, and 5	20.12.26
Strathallan	N/E.	Echuca	A.C., 1 ph.	30	20	3, 4, and 5	5.11.35
Strathfieldsaye	Bend.	Bendigo	A.C., 1 ph.	300	54	3, 4, and 5	13.3.45
Strathmerton	N/E.	Cobram	A.C., 1 ph.	170	32	3, 4, and 5	19.2.35
Streatham	S/W.	Terang	A.C., 1 ph.*	155	32	3, 4, and 5	28.9.39
Strezlecki	Gipps.	Korumburra	A.C., 1 ph.	350	54	3, 4, and 5	14.4.48
Sunbury	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	1,414	274	3, 4, and 5	1.5.26
Swan Marsh	S/W.	Colac	A.C., 1 ph.	100	21	3, 4, and 5	4.6.37
Swan Reach	Gipps.	Lakes Entrance	A.C., 1 ph.	150	41	3, 4, and 5	11.7.30
Sydenham	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	105	33	3, 4, and 5	14.10.38
Talbot	Mid.	Maryborough	A.C., 1 ph.	456	111	3, 4, and 5	27.8.38
Tallangatta	N/E.	Wodonga	A.C., 3 ph.	850	262	3, 4, and 5	1.11.40
Tallygaroopna	N/E.	Shepparton	A.C., 3 ph.	230	61	3, 4, and 5	22.10.33
Tally Ho	E/M.	Dandenong	A.C., 3 ph.	110	62	3, 4, and 5	9.3.28
Tambo Upper	Gipps.	Lakes Entrance	A.C., 1 ph.	100	22	3, 4, and 5	24.12.37
Tandarra	Bend.	Inglewood	A.C., 1 ph.	100	20	3, 4, and 5	9.11.44
Tandarook	S/W.	Camperdown	A.C., 1 ph.	50	9	3, 4, and 5	25.5.39
Tangambalanga	N/E.	Wodonga	A.C., 3 ph.	150	52	3, 4, and 5	12.4.39
Tanjil South	Gipps.	Trafalgar	A.C., 1 ph.	106	39	3, 4, and 5	27.5.37
Tarago	Gipps.	Warragul	A.C., 1 ph.	53	15	3, 4, and 5	23.8.38
Targoora	N/E.	Wangaratta	A.C., 1 ph.	(See Wangaratta South)		3, 4, and 5	12.5.38
Tarneit	Metro.	Werribee	A.C., 3 ph.	124	31	3, 4, and 5	12.12.46
Tarra Valley	Gipps.	Yarram	A.C., 1 ph.	130	19	3, 4, and 5	31.7.46
Tatura	N/E.	Shepparton	A.C., 3 ph.	1,550	402	3, 4, and 5	1.11.26
Tawanga	N/E.	Myrtleford	A.C., 3 ph.	50	101	3, 4, and 5	15.5.46
Tecoma	E/M.	Belgrave	A.C., 3 ph.	(See Belgrave)		2, 4, and 5	3.9.28
Terang	S/W.	Terang	A.C., 3 ph. and 1 ph.*	2,500	674	2, 4, and 5	4.3.24
Terang Rural	S/W.	Terang	A.C., 1 ph.	1,570	706	3, 4, and 5	9.1.36
Tesbury	S/W.	Camperdown	A.C., 1 ph.*	20	8	3, 4, and 5	15.5.39
Tetoora Road	Gipps.	Warragul	A.C., 1 ph.	114	44	3, 4, and 5	27.5.41
The Basin	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	509	164	3, 4, and 5	13.9.39
Thomastown	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	177	65	3, 4, and 5	1.6.28
Thornton	N/E.	Alexandra	A.C., 1 ph.	170	74	3, 4, and 5	19.7.27
Thorpdale	Gipps.	Trafalgar	A.C., 1 ph.	230	90	3, 4, and 5	23.12.37
Tinamba	Gipps.	Maffra	A.C., 1 ph.	400	187	3, 4, and 5	11.7.28
Tongala	N/E.	Echuca	A.C., 3 ph.	478	352	3, 4, and 5	12.9.26
Toolamba West	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	180	96	3, 4, and 5	1.12.39
Toongabbie	Gipps.	Traralgon	A.C., 1 ph.	200	46	3, 4, and 5	11.3.29
Toora	Gipps.	Foster	A.C., 3 ph. and 1 ph.	716	204	3, 4, and 5	10.5.38
Tooradin	Gipps.	Koo-wee-rup	A.C., 1 ph.	375	73	3, 4, and 5	14.1.37
Toorloo Arm	Gipps.	Lakes Entrance	A.C., 1 ph.	75	13	3, 4, and 5	13.2.40
Top Creek	N/E.	Rochester	A.C., 1 ph.	(See Nanneella)		3, 4, and 5	25.7.46
Torquay	Geel.	Queenscliff	A.C., 3 ph. and 1 ph.	600	277	3, 4, and 5	1.9.30
Torwood	Gipps.	Warragul	A.C., 1 ph.	50	18	3, 4, and 5	22.1.40
Tourello	Ball.	Ballarat	A.C., 1 ph.	25	9	3, 4, and 5	10.8.38
Tower Hill	S/W.	Port Fairy	A.C., 1 ph.*	40	8	3, 4, and 5	30.6.35
Trafalgar	Gipps.	Trafalgar	A.C., 3 ph.	1,540	402	3, 4, and 5	16.10.23
Trafalgar Rural	Gipps.	Trafalgar	A.C., 1 ph.	380	164	3, 4, and 5	3.4.28
Traralgon	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	5,000	1,281	2, 4, and 5	24.11.23
Traralgon Rural	Gipps.	Traralgon	A.C., 1 ph.	200	31	3, 4, and 5	27.11.28
Traralgon South	Gipps.	Traralgon	A.C., 1 ph.	170	33	3, 4, and 5	12.8.37
Trawool	N/E.	Seymour	A.C., 1 ph.	(See Seymour Rural)		3, 4, and 5	5.4.45
Tremont	E/M.	Belgrave	A.C., 1 ph.	467	126	3, 4, and 5	2.9.27

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Trentham	Mid.	Kyneton	A.C., 3 ph.	956	206	3, 4, and 5	8.5.39
Triholm	Gipps.	Korumburra	A.C., 1 ph.	40	3	3, 4, and 5	17.10.38
Tullamarine	Metro.	Melbourne	A.C., 3 ph.	216	51	3, 4, and 5	18.3.39
Tungamah	N/E.	Yarrawonga	A.C., 3 ph.	310	89	3, 4, and 5	14.2.40
Tyabb	E/M.	Frankston	A.C., 3 ph.	270	53	3, 4, and 5	20.1.28
Tyers	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	260	81	3, 4, and 5	15.10.23
Tylden	Mid.	Kyneton	A.C., 1 ph.	272	35	3, 4, and 5	6.7.39
Tynong	Gipps.	Koo-wee-rup	A.C., 1 ph.	300	90	3, 4, and 5	14.1.29
Upper Beaconsfield	E/M.	Dandenong	A.C., 1 ph.	150	81	3, 4, and 5	1.8.34
Upper Fernitree Gully	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	920	369	2, 4, and 5	24.8.25
Upper Maffra West	Gipps.	Maffra	A.C., 1 ph.	250	52	3, 4, and 5	6.10.37
Upwey	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	1,299	685	2, 4, and 5	24.8.25
Valencia Creek	Gipps.	Maffra	A.C., 1 ph.	100	20	3, 4, and 5	11.6.38
Vervale	Gipps.	Koo-wee-rup	A.C., 1 ph.	115	7	3, 4, and 5	10.7.42
Violet Town	N/E.	Benalla	A.C., 3 ph.	680	152	3, 4, and 5	1.3.36
Waaia	N/E.	Numurkah	A.C., 3 ph.	50	17	3, 4, and 5	5.11.40
Wahgunyah	N/E.	Rutherglen	A.C., 3 ph.	560	123	3, 4, and 5	1.2.26
Wallace	Ball.	Ballarat	A.C., 3 ph.	100	31	3, 4, and 5	17.5.40
Wallington	Geel.	Queenscliff	A.C., 1 ph.	100	28	3, 4, and 5	1.9.47
Walpa	Gipps.	Bairnsdale	A.C., 1 ph.	50	21	3, 4, and 5	16.5.35
Wangaratta	N/E.	Wangaratta	A.C., 3 ph.	6,000	1,822	2, 4, and 5	12.3.27
Wangaratta North	N/E.	Wangaratta	A.C., 3 ph.	26	13	3, 4, and 5	20.5.36
Wangaratta South	N/E.	Wangaratta	A.C., 3 ph.	60	38	3, 4, and 5	3.5.38
Wangoom	S/W.	Warrnambool	A.C., 1 ph.*	20	8	3, 4, and 5	9.5.39
Wantirna	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	614	164	3, 4, and 5	1.2.28
Wantirna South	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	30	8	3, 4, and 5	18.2.47
Warburton	E/M.	Warburton	A.C., 3 ph.	1,400	389	3, 4, and 5	1.7.44
Warncoort	S/W.	Colac	A.C., 1 ph.	30	9	3, 4, and 5	19.12.25
Warragul	Gipps.	Warragul	A.C., 3 ph. and 1 ph.	3,692	1,061	2, 4, and 5	1.12.30
Warragul Rural	Gipps.	Warragul	A.C., 1 ph.	374	146	3, 4, and 5	19.6.28
Warrandyte	E/M.	Ringwood	A.C., 1 ph.	565	261	3, 4, and 5	21.12.35
Warrenheip	Ball.	Ballarat	A.C., 3 ph.	150	33	3, 4, and 5	10.6.48
Warrion	S/W.	Colac	A.C., 1 ph.	80	20	3, 4, and 5	18.8.24
Warrnambool	S/W.	Warrnambool	A.C., 3 ph. and 1 ph.*	10,000	2,795	2, 4, and 5	30.12.23
Warrnambool Rural	S/W.	Warrnambool	A.C., 3 ph. and 1 ph.	900	381	3, 4, and 5	9.1.36
Warrong	S/W.	Port Fairy	A.C., 1 ph.*	20	4	3, 4, and 5	20.4.40
Watsonia	E/M.	Greensborough	A.C., 3 ph.	134	56	3, 4, and 5	24.3.26
Waubra	Ball.	Ballarat	A.C., 1 ph.	200	24	3, 4, and 5	18.12.40
Waurn Ponds	Geel.	Geelong	A.C., 1 ph.	100	16	3, 4, and 5	26.11.45
Weerangourt	S/W.	Port Fairy	A.C., 1 ph.*	25	9	3, 4, and 5	29.9.45
Weerite	S/W.	Camperdown	A.C., 3 ph. and 1 ph.*	30	10	3, 4, and 5	8.6.28
Wellsford	Bend.	Bendigo	A.C., 3 ph. and 1 ph.	20	2	3, 4, and 5	25.1.43
Welshpool	Gipps.	Foster	A.C., 3 ph. and 1 ph.	330	94	3, 4, and 5	13.8.38
Werribee	Metro.	Werribee	A.C., 3 ph. and 1 ph.	3,460	902	2, 4, and 5	10.4.24
Werribee South	Metro.	Werribee	A.C., 3 ph. and 1 ph.	846	193	3, 4, and 5	24.11.36
Westbury	Gipps.	Trafalgar	A.C., 1 ph.	35	16	3, 4, and 5	27.5.37
Westmere	S/W.	Terang	A.C., 1 ph.*	50	16	3, 4, and 5	30.9.38
Wheeler's Hill	E/M.	Dandenong	A.C., 1 ph.	165	47	3, 4, and 5	1.2.26
Whittlesea	E/M.	Greensborough	A.C., 1 ph.	463	135	3, 4, and 5	28.9.37
Whorouly	N/E.	Myrtleford	A.C., 3 ph. and 1 ph.	300	134	3, 4, and 5	2.6.42
Whorouly East	N/E.	Myrtleford	A.C., 1 ph.	(See Whorouly)		3, 4, and 5	17.4.45
Whorouly South	N/E.	Myrtleford	A.C., 1 ph.	(See Whorouly)		3, 4, and 5	24.7.45
Willatook	S/W.	Port Fairy	A.C., 1 ph.*	20	5	3, 4, and 5	23.5.40
Willaura	S/W.	Terang	A.C., 1 ph.	430	128	3, 4, and 5	23.9.38
Willaura Rural	S/W.	Terang	A.C., 1 ph.	1,200	227	3, 4, and 5	23.9.38
Willowgrove	Gipps.	Trafalgar	A.C., 1 ph.	69	29	3, 4, and 5	22.5.39
Winchelsea	S/W.	Colac	A.C., 3 ph. and 1 ph.*	720	152	3, 4, and 5	30.6.24
Windermere	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	175	41	3, 4, and 5	21.10.47
Winslow	S/W.	Port Fairy	A.C., 1 ph.*	103	2	3, 4, and 5	29.10.47
Wiseleigh	Gipps.	Lakes Entrance	A.C., 1 ph.	100	10	3, 4, and 5	24.10.30
Wodonga	N/E.	Wodonga	A.C., 3 ph.	3,400	748	2, 4, and 5	1.11.33
Wodonga Rural	N/E.	Wodonga	A.C., 1 ph.	40	7	3, 4, and 5	8.8.38
Wollert	E/M.	Greensborough	A.C., 1 ph.	126	42	3, 4, and 5	2.5.47
Wonga Park	E/M.	Ringwood	A.C., 1 ph.	91	9	3, 4, and 5	18.5.38
Woodend	Mid.	Kyneton	A.C., 3 ph. and 1 ph.	1,456	386	3, 4, and 5	1.8.29
Woodglen	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	30	23	3, 4, and 5	16.4.40
Woodvale	Bend.	Bendigo	A.C., 1 ph.	50	4	3, 4, and 5	2.6.41
Wool Wool	S/W.	Colac	A.C., 3 ph. and 1 ph.*	30	8	3, 4, and 5	15.10.24
Woorndoo	S/W.	Terang	A.C., 1 ph.*	40	7	3, 4, and 5	8.12.38
Wunghnu	N/E.	Numurkah	A.C., 3 ph.	210	50	3, 4, and 5	1.10.33
Wurruk Wurruk	Gipps.	Sale	A.C., 1 ph.	100	28	3, 4, and 5	27.8.47
Wy Yung	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	50	11	3, 4, and 5	28.9.28
Yackandandah	N/E.	Wodonga	A.C., 3 ph.	363	143	3, 4, and 5	20.12.39
Yallock	Gipps.	Koo-wee-rup	A.C., 1 ph.	120	34	3, 4, and 5	25.11.37
Yallook	Bend.	Inglewood	A.C., 1 ph.	20	4	3, 4, and 5	29.9.47
Yangery	S/W.	Port Fairy	A.C., 1 ph.*	120	8	3, 4, and 5	22.6.38
Yannathan	Gipps.	Koo-wee-rup	A.C., 1 ph.	285	97	3, 4, and 5	8.2.36
Yan Yean	E/M.	Greensborough	A.C., 1 ph.	141	41	3, 4, and 5	28.9.37
Yarraberb	Bend.	Inglewood	A.C., 1 ph.	30	4	3, 4, and 5	9.7.44
Yarra Glen	E/M.	Healesville	A.C., 1 ph.	350	82	3, 4, and 5	15.3.34

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 7 Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Yarragon	Gipps.	Trafalgar ..	A.C., 3 ph. and 1 ph.	718	262	3, 4, and 5	1.11.23
Yarram	Gipps.	Yarram ..	A.C., 3 ph. and 1 ph.	1,600	496	3, 4, and 5	31.7.46
Yarrambat	E/M.	Greensborough	A.C., 1 ph. ..	35	12	3, 4, and 5	28.11.45
Yarrawonga	N/E.	Yarrawonga ..	A.C., 3 ph. ..	2,880	723	2, 4, and 5	1.8.25
Yea	N/E.	Alexandra ..	A.C., 3 ph. ..	950	345	3, 4, and 5	1.5.45
Yering	E/M.	Healesville ..	A.C., 1 ph. ..	60	20	3, 4, and 5	24.2.34
Yeringberg	E/M.	Healesville ..	A.C., 1 ph. ..	60	19	3, 4, and 5	7.7.33
Yinnar	Gipps.	Traralgon ..	A.C., 3 ph. and 1 ph.	450	168	3, 4, and 5	28.11.27
Yuroke	Metro.	Melbourne ..	A.C., 3 ph. ..	54	13	3, 4, and 5	13.6.39

* = 230 V. only. † = Non-permanent supply.

Note.—System of Supply.—A.C. Single-phase—Metropolitan area, 200–400 volts.
Other areas, 230–460 volts.
A.C. Three-phase, 230–400 volts.
D.C. Three-wire, 230–460 volts.
D.C. Two-wire, 230 volts.

LIST OF BRANCH OFFICES.

Branch Title.	Abbreviations.	Location of Branch Headquarters.	Telephone.
Metropolitan	Metro.	238–242 Flinders-street, Melbourne	MU 9021 JM 1525 C. 10310
Ballarat	Ball.	1–7 Wendouree-parade, Ballarat	1825
Bendigo	Bend.	Cr. Hargreaves and Williamson-streets, Bendigo	1700
Geelong	Geel.	Corio-terrace, Geelong	5941
Eastern Metropolitan	E/M.	197 Lonsdale-street, Dandenong	182
Gippsland	Gipps.	108–116 Franklin-street, Traralgon	114
Midland	Mid.	40 Lyttleton-street, Castlemaine	238
North-Eastern	N/E.	80 Bridge-street, Benalla	567
South-Western	S/W.	119–121 Murray-street, Colac	661

LIST OF DISTRICT OFFICES.

District Office.	Address.	Telephone.	District Office.	Address.	Telephone.
Alexandra ..	Grant-street, Alexandra ..	88	Leongatha ..	44 Bair-street, Leongatha ..	176
	High-street, Mansfield ..	40	Lorne ..	Cr. Mountjoy-parade and William-street, Lorne	29
	High-street, Yea	105			
Bacchus Marsh ..	Main-street, Bacchus Marsh ..	236	Maffra ..	Johnston-street, Maffra ..	27
	Evans-street, Sunbury ..	14	Maryborough ..	112–114 High-street, Maryborough	207
Bairnsdale ..	159 Main-street, Bairnsdale ..	333			
Beechworth ..	Camp-street, Beechworth ..	132	Mornington ..	64 Main-street, Mornington ..	247
Belgrave ..	Main-road, Belgrave ..	127	Myrtleford ..	Myrtle-street, Myrtleford ..	60
Benalla ..	80 Bridge-street, Benalla ..	567	Numurkah ..	Melville-street, Numurkah ..	36
	Cowslip-street, Violet Town ..	47		Blake-street, Nathalia ..	54
Camperdown ..	Manifold-street, Camperdown ..	94	Port Fairy ..	Sackville-street, Port Fairy ..	123
Castlemaine ..	40 Lyttleton-street, Castlemaine	196 and 238	Queenscliff ..	Hesse-street, Queenscliff ..	92
			Ringwood ..	187 Whitehorse-road, Ringwood	WU 6095
Chelsea ..	420 Point Nepean-road, Chelsea	45	Rochester ..	Gillies-street, Rochester ..	129
Cobram ..	Cr. William-street and Punt-road, Cobram	45	Rutherglen ..	Main-street, Rutherglen ..	98
				Conness-street, Chiltern ..	31
Colac ..	119–121 Murray-street, Colac	661	Sale	78 Raymond-street, Sale ..	89
Dandenong ..	197 Lonsdale-street, Dandenong	182, 192, 168 and 64	Seymour ..	Station-street, Seymour ..	80
			Shepparton ..	Maude-street, Shepparton ..	49 and 747
Daylesford ..	Vincent-street, Daylesford ..	257	Sorrento ..	Ocean Amphitheatre-road, Sorrento	45
Echuca ..	196 Hare-street, Echuca ..	321			
Euroa ..	Binney-street, Euroa ..	162		Point Nepean-road, Dromana	42
Foster ..	Main-street, Foster	50	Sunshine ..	241 Hampshire-road, Sunshine	MW 9648
Frankston ..	Cr. Wells and Bay streets, Frankston	109	Terang ..	High-street, Terang ..	47
			Trafalgar ..	Main-street, Trafalgar ..	50
Greensborough ..	Main-street, Greensborough ..	63	Traralgon ..	108–116 Franklin-street, Traralgon	98, 114 and 164
Hamilton ..	McLuckies Lane Hamilton ..	734			
Healesville ..	Nicholson-street, Healesville ..	165	Wangaratta ..	110 Murphy-street, Wangaratta	262
			Warburton ..	Main-street, Warburton ..	93
Inglewood ..	Brooke-street, Inglewood ..	105	Warragul ..	Victoria-street, Warragul ..	151
Koo-wee-rup ..	Station-street, Koo-wee-rup ..	41	Warrnambool ..	138 Koroit-street, Warrnambool	75
Korumburra ..	Commercial-street, Korumburra	29	Werribee ..	Watton-street, Werribee ..	5
Kyabram ..	Allan-street, Kyabram ..	221	Wodonga ..	Sydney-street, Wodonga ..	63
Kyneton ..	35 High-street, Kyneton ..	151		Towong-street, Tallangatta ..	91
	High-street, Woodend ..	74	Yarram ..	Commercial-road, Yarram ..	223
Lakes Entrance	Main-street, Lakes Entrance ..	76	Yarrawonga ..	Belmore-street, Yarrawonga ..	85

ELECTRICITY SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE).

Municipality or Centre.	Supply Authority.	System of Supply.	Population.	Number of Consumers.	Tariffs.	
METROPOLITAN.						
Supplied in Bulk by State Electricity Commission.						
City of Melbourne (excl. Flemington)	Melbourne City Council ..	D.C., 230–460 v. A.C., 3 ph., 230–400 v.	75,700	27,961	Metropolitan Standard Tariffs apply in all these territories with the exception of that of the Melbourne City Council, which has the following Metropolitan Standard Tariffs only:—Residential, All-Purposes, Night Rate Water Heating. In addition to the above, the Melbourne City Council has Tariffs different from Standard for commercial and industrial lighting, radiators, and power and heating.	
Box Hill, and City of Nunawading	Box Hill City Council ..	A.C., 3 ph., 230–400 v.	32,093	8,815		
Brunswick ..	Brunswick City Council ..	A.C., 3 ph., 230–400 v.	58,500	15,158		
Coburg ..	Coburg City Council ..	A.C., 3 ph., 230–400 v.	51,629	12,963		
Footscray and part of Braybrook Shire	Footscray City Council ..	A.C., 3 ph., 230–400 v.	65,500	15,269		
Heidelberg (excl. Greensborough)	Heidelberg City Council ..	A.C., 3 ph., 230–400 v.	33,661	8,760		
Northcote ..	Northcote City Council ..	A.C., 3 ph., 230–400 v.	44,000	12,033		
Port Melbourne	Port Melbourne City Council ..	A.C., 3 ph., 230–400 v.	13,500	3,651		
Preston ..	Preston City Council ..	A.C., 3 ph., 230–400 v.	41,814	11,295		
Williamstown ..	Williamstown City Council ..	A.C., 3 ph., 230–400 v.	27,600	7,224		
			443,997	123,129		
COUNTRY.					Lighting.	Power.
Apollo Bay ..	H. A. Block	D.C., 230 v. ..	650	199	1s. 3d. to 6d. ..	6d. to 2½d.
Ararat ..	Ararat Town Council ..	A.C., 3 ph., 230–400 v.	6,000	1,352	9d. to 1¼d. ..	3½d. to 1¼d.
Beaufort ..	Ripon Shire Council	A.C., 3 ph., 230–400 v.	1,500	318	6d.	3d.
Berriwillock ..	Wycheproof Shire Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Wycheproof)	11d. to 9d. ..	5d. to 3¼d.
Beulah ..	Karkarooc Shire Council ..	D.C., 230–460 v. ..	450	146	1s. 3d. ..	4d.
Birchip ..	Birchip E.S. Co. Ltd. ..	D.C., 230 v. ..	657	218	1s. 2d. ..	7d. to 5d.
Boort	Boort Co-op. Butter and Ice Co. Ltd.	D.C., 230 v. ..	600	201	1s. 3d. to 9d.	6d. to 4d
‡Broadford ..	Broadford Shire Council ..	D.C., 230 v. ..	1,230	276	9d.	6d.
Cardross ..	Mildura City Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Mildura)	6½d. to 5½d. ..	Dom. 1½d. to 1¼d. Ind. 4¾d. to 1d.
Casterton ..	Casterton E.S. Co. Pty. Ltd. ..	D.C., 230 v. ..	2,000	473	9d. to 7d. ..	4d. to 1·1d.
Charlton ..	Charlton E.L. and P. Co. Ltd.	D.C., 230 v. ..	1,300	396	1s. to 7d. ..	5d. to 3d.
Cohuna ..	Gunbower Co-op. Butter Faetory and Trading Co. Ltd.	A.C., 3 ph., 230–400 v.	1,100	326	1s. to 9d. ..	6d. to 2d.
——— ..	Corindhap Hydraulic G.S. Co. N.L.	A.C., 3 ph.	..	..	No supply to consumers	
Corryong ..	Shire of Upper Murray ..	A.C., 3 ph., 230–400 v.	700	195	1s. 3d. ..	6d. to 3d.
Culgoa ..	Wycheproof Shire Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Wycheproof)	11d. to 9d. ..	5d. to 3¼d.
Dimboola ..	Dimboola Shire Council ..	D.C., 230–460 v. ..	1,800	494	1s. to 8d. ..	6d. to 3d.
Donald ..	Donald Shire Council ..	D.C., 230 v. ..	1,500	451	1s. and 10d. ..	6d. to 1¾d.
*Doncaster and Templestowe	Doncaster Shire Council ..	A.C., 1 ph., 200–400 v.	2,600	760	7d.	3d. to 0·2d.
Dumosa ..	Wycheproof Shire Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Wycheproof)	11d. to 9d. ..	5d. to 3¼d.
Edenhope ..	Edenhope E.S. Co. Pty. Ltd.	D.C., 230 v. ..	500	80	1s. 3d. ..	9d.
Goroke ..	Goroke Butter and Freezing Co.	D.C., 230 v. ..	310	76	1s. 4d. to 9d. ..	6d. to 3d.
Gunbower ..	Gunbower Co-op. Butter Factory and Trading Co. Ltd.	D.C., 230 v. ..	225	53	1s. to 9d. ..	6d. to 2d.
Heathcote ..	McIvor Shire Council ..	D.C., 230–460 v. ..	1,400	271	1s. 4d. ..	8d. to 6d.
Heywood ..	S. F. Block	A.C., 3 ph., 230–400 v.	1,050	207	1s. 3d to 1s.	6d to 3d.
Hopetoun ..	Karkarooc Shire Council ..	D.C., 230 v. ..	800	218	10d. and 9d. ..	4d.
Horsham ..	Horsham Town Council ..	D.C., 230–460 v. A.C., 3 ph., 230–400 v.	6,400	1,764	9d. ..	Dom. 4d. to 2d. Ind. 9d. to 1·2d.
Irymple ..	Mildura City Counell ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Mildura)	6½d. to 5½d. ..	Dom. 1½d. to 1¼d. Ind. 4¾d. to 1d.
Jeparit ..	S. F. Block (trading as "Jeparit Electric Light and Power Station").	D.C., 230 v. ..	800	237	1s. to 9d. ..	6d. to 3d.
Kaniva ..	Kaniva Shire Council ..	A.C., 3 ph., 230–400 v.	1,240	259	1s.	6d. to 4d.
Kerang ..	Kerang Shire Council ..	A.C., 3 ph., 230–400 v.	3,000	754	8d. to 4d. ..	4d. to 1½d.
Kilmore ..	Kilmore Shire Council ..	D.C., 230 v. ..	1,200	248	10d. to 6d. ..	4d. to 2d.
Koondrook ..	Kerang Shire Council ..	A.C., 3 ph., 230–400 v.	750	129	1s. 3d. ..	9d. to 3½d.
Korong Vale ..	Korong Shire Council ..	A.C., 3 ph., 230–400 v.	..	(See Wedderburn)	1s. ..	5½d. to 2d.
Manangatang ..	J. Andrews	D.C., 230 v. ..	500	78	1s. 4d. ..	6d. to 1d.
Merbein ..	Mildura City Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Mildura)	6½d. to 5½d. ..	Dom. 1½d. to 1¼d. Ind. 4¾d. to 1d.
Mildura ..	Mildura City Council ..	A.C., 3 ph., 230–400 v.	16,500	4,605	City, 6½d. to 5½d.; District, 6½d. to 5½d.	City—Dom. 1½d. to 1¼d.; Ind. 4¾d. to 1d. Dist.—Dom. 1½d. to 1¼d.; Ind. 4¾d. to 1d.

ELECTRICITY SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE)—*continued.*

Municipality or Centre.	Supply Authority.	System of Supply.	Population.	Number of Consumers.	Tariffs.	
					Lighting.	Power.
COUNTRY—*continued.*						
Minyip ..	Dunmunkle Shire Council ..	D.C., 230 v. ..	700	195	1s.	8d. to 2d.
Mitiamo ..	C. W. Sims Jnr.	D.C., 230 v. ..	150	32	1s. 3d. to 4d. ..	1s. to 3d.
					Optional Tariff—4s. per month, plus 1s. per unit for first 12 units and 6d. per unit for all over.	
Murrayville ..	Walpeup Shire Council ..	A.C., 3 ph., 230–400 v.	400	88	1s. 3d. ..	6d. to 4d.
Murtoa ..	Dunmunkle Shire Council ..	D.C., 230 v. ..	1,200	351	9d.	4d. to 2d.
Nagambie ..	Goulburn Shire Council ..	D.C., 230–460 v. ..	800	212	10d. ..	6d.
Natimuk ..	H. C. Woolmer	A.C., 230–400 v. ..	500	114	1s. 3d. to 1s.	6d. to 4d.
Nhill	Lowan Shire Council ..	D.C., 230–460 v. ..	1,990	540	8d.	5d. to 2d.
Nullawil ..	Wycheproof Shire Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Wycheproof)	11d. to 9d. ..	5d. to 3¼d.
Omeo	Omeo E.S. and Motor Co. Pty. Ltd.	A.C., 3 ph., 230–400 v.	300	139	1s. 6d. ..	6d.
Orbost ..	Orbost Butter and Produce Co. Ltd.	D.C., 230 v. ..	1,600	471	10d. to 8d. ..	5d. to 3d.
Ouyen ..	Walpeup Shire Council ..	D.C., 230–460 v. ..	1,100	295	11d. ..	3d. to 2d.
Phillip Island ..	Phillip Island Shire Council ..	A.C., 3 ph., 230–400 v.	500	176	†1s. 1d. and 1s.	7d. to 4d.
Portland ..	Portland Borough Council ..	A.C., 3 ph., 230–400 v.	3,600	999	10d. to 6d. ..	5d. to 3d.
Pyramid ..	Gordon Shire Council ..	A.C., 3 ph., 230–400 v.	450	123	1s. 3d. to 6d.	6d. to 3d.
Quambatook ..	Kerang Shire Council ..	D.C., 230 v. ..	500	120	1s.	6d. to 4d.
Rainbow ..	Frank Dawson Pty. Ltd. ..	D.C., 230 v. ..	1,007	214	1s. to 8d. ..	6d.
Red Cliffs ..	Mildura City Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Mildura)	6½d. to 5½d. ..	Dom. 1½d. to 1¼d. Ind. 4¾d. to 1d.
Rupanyup ..	Dunmunkle Shire Council ..	D.C., 230 v. ..	700	170	1s. 1d.	8d. to 2d.
Rushworth ..	Waranga Shire Council ..	D.C., 230 v. ..	1,200	320	9d.	4d. to 2d.
Sea Lake ..	Wycheproof Shire Council ..	A.C., 3 ph., 230–400 v.	..	(Incl. in Wycheproof)	11d. to 9d. ..	5d. to 3¼d.
Serviceton ..	C. C. Wallis	D.C., 230 v. ..	150	33	1s. ..	6d.
Stawell ..	Stawell Borough Council ..	A.C., 3 ph., 230–400 v.	4,840	1,344	9d.	4d. to 2d.
St. Arnaud ..	St. Arnaud Borough Council ..	A.C., 3 ph., 230–400 v.	2,900	784	11d. to 6d. ..	5d. to 2½d.
Swan Hill (Borough) ..	Swan Hill Borough Council ..	A.C., 3 ph., 230–400 v.	5,000	1,181	8d. to 3d. ..	5d. to 1½d. *less* 45%
Swan Hill (Rural Supply)	Swan Hill Shire Council ..	A.C., 3 ph., 230–400 v.	11,000	703	1s. 1d. to 6d. ..	4d. to 3d.
Underbool ..	A. J. Gloster	D.C., 230 v. ..	200	46	1s. 6d. ..	8d. to 6d.
Walwa ..	O. A. Hoffmann	D.C., 230 v. ..	250	40	1s. 6d. ..	9d.
Warracknabeal ..	Warracknabeal E.L. Co. Ltd. ..	A.C., 3 ph., 230–400 v.	2,925	751	10d. and 9d. ..	6d. to 3d.
Wedderburn (Incl. Korong Vale)	Korong Shire Council ..	A.C., 3 ph., 230–400 v.	1,450	Wedderburn, 202 Korong Vale, 99	1s. ..	5½d. to 2d.
Wonthaggi ..	State Coal Mine	A.C., 3 ph., 240–415 v.	5,260	1,558	7d.	3d. to 1½d.
Woomelang ..	E. H. & L. J. Bailey ..	D.C., 230 v.	410	53	1s. 3d and 1s. 1d.	7d.
Wycheproof (Incl. Sea Lake and Intermediate Towns)	Wycheproof Shire Council ..	A.C., 3 ph., 230–400 v.	2,300	596	11d. to 9d. ..	5d. to 3¼d.

* Supplied in bulk by State Electricity Commission. † Special per capita tariff for Guest houses.
‡ Acquired by State Electricity Commission subsequent to 30th June, 1948.

NEW SOUTH WALES UNDERTAKINGS (BULK SUPPLIES).

(Not included in Summary.)

Municipalities of Albury, Berrigan, Coreen, Corowa, and Moama purchased from the State Electricity Commission of Victoria 20,210,160 kWh. during the year.

STATE ELECTRICITY COMMISSION OF VICTORIA.

COUNTRY UNDERTAKINGS ACQUIRED (76)—INCREASED DEVELOPMENT SINCE ACQUISITION.

Location.	Acquisition Date.	After Acquisition, Year 1947-48.		Prior to Acquisition.			Average Revenue per kWh. Sold.	
		kWh. Sold.	Revenue.	kWh. Sold.	Revenue.	For Year Ended.	1947-48.	Prior to Acquisition.
			£		£		*d.*	*d.*
Metropolitan Branch.								
Werribee	10.4.24	4,361,480	27,546	61,190	2,575	30.9.23	1·52	10·10
Ballarat Branch.								
Ballan	1.3.40	138,202	1,537	13,261	964	30.6.39	2·67	17·45
Daylesford	31.10.40	1,505,897	10,343	184,853	5,091	30.10.40	1·65	6·61
Hepburn Springs	1.10.40	290,295	2,861	46,002	1,701	30.6.40	2·37	8·87
Wallace	17.5.40	95,189	522	1,320	90	30.6.39	1·32	16·36
Bendigo Branch.								
Eaglehawk	1.2.36	1,301,851	10,107	198,580	4,472	30.9.35	1·86	5·40
Inglewood	3.12.46	165,460	2,163	89,400	2,614	30.9.46	3·14	7·02
Elmore	2.9.47	..	..	60,000	2,188	30.6.46	..	8·75
Eastern Metropolitan Branch.								
Dandenong	1.10.23	3,970,754	26,361	77,300	4,006	30.9.23	1·59	12·44
Frankston	21.2.28	6,437,588	40,208	293,000	8,859	30.9.27	1·50	7·25
Healesville	1.4.33	1,668,278	12,540	108,910	4,196	30.9.31	1·80	9·24
Lilydale	1.4.25	1,859,284	9,837	39,950	1,816	30.9.24	1·27	10·91
Mornington	1.8.30	2,424,289	16,701	120,000	4,634	30.9.28	1·65	9·26
Ringwood and Croydon	1.4.25	5,573,183	33,341	181,600	4,393	30.9.24	1·44	5·81
Sorrento and Portsea	1.10.27	1,460,620	9,912	47,500*	2,440	30.9.27	1·63	12·33*
Warburton	1.7.44	483,890	4,683	112,555	3,485	30.6.44	2·32	7·43
Gippsland Branch.								
Bairnsdale	1.4.27	2,495,021	17,806	100,272	2,948	30.6.23	1·71	7·06
Drouin	3.10.24	1,366,613	7,629	19,500	743	30.9.21	1·34	9·15
Garfield	1.8.29	169,905	1,332	8,864	465	30.12.27	1·88	12·59
Heyfield	15.9.24	318,195	2,241	20,000*	950*	30.6.24	1·69	11·40
Inverloch	1.10.34	144,861	1,472	4,000*	200	30.6.34	2·44	12·00*
Koo-wee-rup	1.8.35	489,708	3,071	17,481	686	9.8.33	1·51	9·42
Korumburra	1.12.24	2,091,825	11,244	85,000	3,427	30.9.23	1·29	9·68
Leongatha	15.2.24	1,470,237	8,750	50,640	2,012	30.6.23	1·43	9·53
Maffra	1.9.24	3,453,158	15,546	62,000	2,651	30.9.22	1·08	10·26
Morwell	1.4.26	16,515,383	47,601	52,062	1,772	30.9.25	0·69	8·17
Neerim South–Noojee	15.1.35	989,644	5,460	59,550	1,193	30.6.33	1·32	4·81
Sale	1.7.24	3,449,620	22,936	114,155	3,687	30.6.24	1·60	7·75
Toora–Foster	1.5.38	909,790	5,418	116,330	2,348	30.6.36	1·43	4·84
Thorpdale	23.12.37	102,518	766	5,000*	312*	23.12.37	1·79	14·98*
Warragul	1.12.30	3,173,612	19,300	150,000*	4,830	30.11.30	1·46	7·73*
Welshpool	13.8.38	78,779	820	5,280	172*	13.8.38	2·50	7·82*
Yarram	31.7.46	739,309	6,230	264,000*	6,422	31.1.46	2·02	5·84*
Midland Branch.								
Avoca	1.8.40	271,080	2,397	46,410	1,922	30.6.40	2·12	9·94
Bacchus Marsh	2.6.41	1,309,716	9,677	253,913	4,225	30.9.40	1·77	3·99
Castlemaine	31.12.29	3,397,116	20,192	175,904	7,130	31.12.28	1·43	9·73
Dunolly	1.4.38	282,805	2,354	32,667	1,188	30.9.37	2·00	8·73
Gisborne	1.10.28	276,910	2,143	17,000	1,074	30.9.27	1·86	15·16
Kyneton	1.10.29	1,149,154	8,908	143,340	5,433	30.9.27	1·86	9·09
Maryborough	1.10.37	3,027,767	20,893	421,013	10,215	30.9.37	1·66	5·82
Sunbury	1.5.26	441,611	4,786	58,501	2,490	30.9.24	2·60	10·21
Trentham	8.5.39	159,833	1,562	21,000*	989	30.9.38	2·35	11·30*
Woodend	1.8.29	520,717	4,278	51,000	2,555	30.9.27	1·97	12·02
North-Eastern Branch.								
Alexandra	11.4.27	778,522	5,319	64,000*	1,875	30.9.26	1·64	7·00*
Beechworth	2.9.46	806,258	6,976	182,661	6,982	30.9.46	2·08	9·17
Benalla	1.5.26	2,313,965	18,093	70,800	3,373	30.9.24	1·88	11·43
Bright	1.12.41	469,805	3,055	49,200	1,801	31.10.41	1·56	8·79
Chiltern	1.9.26	133,925	1,653	13,475	730	31.8.26	2·96	13·00
Cobram	1.10.28	925,065	5,607	19,500	1,416	30.9.27	1·46	17·43
Euroa	20.3.28	1,005,687	8,635	46,618	1,782	30.9.25	2·06	9·17
Kyabram	1.12.26	1,961,356	12,386	92,312	3,462	4.7.25	1·52	9·00
Mansfield	1.6.28	450,053	3,957	25,000	1,341	30.9.27	2·11	12·88
Mooroopna	1.10.26	1,984,837	9,179	40,000	1,457	30.9.25	1·11	8·74
Murchison	30.11.45	224,080	2,176	114,080	2,547	30.9.45	2·33	5·36
Myrtleford	1.12.40	697,543	4,856	59,260	2,089	30.6.40	1·67	8·46
Nathalia and Numurkah	1.10.31	1,090,278	8,525	96,763	3,619	30.9.31	1·88	8·97
Rochester	1.8.35	924,463	6,351	191,310	4,223	31.7.35	1·65	5·30
Rutherglen	15.10.26	2,611,608	11,352	28,392	1,377	30.9.24	1·04	11·64
Seymour	2.10.44	1,626,753	13,696	1,004,623	14,019	30.9.44	2·02	3·35
Shepparton	1.1.25	5,205,798	33,499	163,400	4,625	30.6.24	1·54	6·79
Stanhope	14.6.38	763,607	4,417	5,150*	341	14.6.38	1·39	15·89*
Tallangatta	1.11.40	423,794	3,107	118,033	3,119	30.9.40	1·76	6·34
Tatura	1.11.26	1,069,336	7,493	40,000	1,710	30.6.25	1·68	10·26
Violet Town	1.3.36	93,552	1,095	14,650*	1,160	30.9.35	2·81	19·00*
Wahgunyah	1.2.26	115,447	1,093	7,233	263	30.9.22	2·27	8·73
Wangaratta	12.3.27	4,881,088	29,646	151,600	4,788	30.9.25	1·46	7·58
Wodonga	1.11.33	1,187,022	8,646	64,500*	3,000*	30.6.33	1·75	11·16*
Yarrawonga	1.8.25	2,143,314	11,588	47,000	2,149	30.9.24	1·30	10·97
Yea	1.5.45	342,072	3,298	163,550	3,134	30.9.44	2·31	4·60
South-Western Branch.								
Camperdown	1.1.24	1,582,469	10,963	97,664	4,122	30.9.23	1·66	10·13
Colac	1.9.23	3,386,478	25,043	99,000	2,673	30.9.22	1·77	6·48
Coleraine } Hamilton }	1.7.46	235,352	2,690	100,216	2,435	31.12.44	2·74	5·83
	1.7.46	2,464,120	22,231	1,440,664	19,422	31.12.44	2·17	3·24
Koroit	1.12.28	356,940	2,984	50,000	2,319	30.9.28	2·01	11·13
Lorne	15.12.36	953,742	6,820	24,000	1,658	30.9.36	1·72	16·58
Mortlake	16.5.24	537,228	4,206	35,306	1,626	30.9.22	1·88	11·05
Terang	4.3.24	1,020,282	7,780	78,839	3,439	30.9.23	1·83	10·47
Total	..	125,296,986	771,889	8,729,102	237,451	..	1·48	6·53

* Approximate only.

COMPARISON OF TOTAL FIGURES.

	kWh. Sold.	Revenue. £	Average Revenue per kWh. *d.*
After acquisition	125,296,986	771,889	1·48
Prior to acquisition	8,729,102	237,451	6·53
Increase in sales and revenue	1,335·4%	225·1%	Decrease 5·05 = 77·3%

STATE ELECTRICITY COMMISSION OF VICTORIA.

TRANSMISSION AND DISTRIBUTION SYSTEMS.

Description.		Increase during Year ended 30th June, 1948.		Total at 30th June, 1948.	
		Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
OVERHEAD LINES.					
Yallourn to Yarraville	132 kV.	..	..	110·0	660·0
Yallourn to Richmond	132 kV.	..	..	80·5	483·0
Yallourn to Warragul	66 kV.	24·8	74·4	24·8	74·4
Newport to Geelong	66 kV.	30·5	91·5	74·5	223·5
Sugarloaf to Thomastown	66 kV.	..	..	62·0	372·0
Thomastown to Bendigo	66 kV.	..	..	93·4	560·7
Newport to Ballarat	66 kV.	8·0	24·0	78·0	234·0
Kiewa No. 3 P.S. to Sugarloaf	66 kV.	..	..	137·0	411·0
Kiewa No. 3 P.S. to Howman's Gap	66 kV.	4·0	12·0	4·0	12·0
Main Metropolitan Transmission Lines	66 kV.	..	..	22·0	22·0
" " " "	22 kV.	..	..	184·4	630·7
Branches—					
Metropolitan	22 kV.	1·7	5·1	93·4	277·1
	7·2, 6·6, 4·0 kV.	7·9	24·3	319·4	935·0
	Low tension	50·4	192·2	1,866·3	7,079·8
Ballarat	22 kV.	31·0	79·8	196·2	552·1
	6·6 kV.	— 1·0	— 3·3	43·0	117·5
	Low tension	43·0	129·2	263·7	906·6
Bendigo	22 kV.	29·0	85·2	168·2	453·1
	Low tension	14·5	45·3	193·5	703·3
Geelong	22 kV.	2·3	5·7	145·6	367·5
	6·6 kV.	— 0·4	— 1·4	62·0	222·2
	Low tension	6·7	25·7	213·9	766·1
Eastern Metropolitan	22 kV.	61·0	163·9	575·2	1,463·4
	6·6 kV.	— 13·3	— 30·1	66·1	162·8
	Low tension	76·3	267·6	823·9	2,699·2
Gippsland	66 kV.	24·9	74·7	65·8	197·3
	22 kV.	26·0	54·0	1,104·6	2,749·9
	6·6 kV.	..	..	0·8	1·6
	Low tension	71·1	251·2	849·1	2,784·4
Midland	22 kV.	14·8	44·7	409·1	1,133·9
	6·6 kV.	..	..	1·6	4·7
	Low tension	19·3	57·7	275·8	920·2
North-Eastern	66 kV.	— 11·5	— 34·4	172·8	518·4
	22 kV.	64·6	163·6	1,065·9	2,847·7
	6·6 kV.	— 8·8	— 26·2	18·4	57·2
	Low tension	37·5	129·8	566·0	1,947·3
South-Western	66 kV.	..	..	76·7	369·5
	44 kV.	..	..	44·6	148·9
	22 kV.	87·2	188·0	1,104·1	2,394·4
	6·6 kV.	..	..	63·6	176·5
	Low tension	31·8	75·1	448·7	1,183·4
Yallourn	6·6 kV.	0·1	0·4	9·2	27·6
	Low tension	1·3	5·0	14·9	49·1
Summary	132 kV.	..	..	190·5	1,143·0
	66 kV.	80·7	242·2	811·0	2,994·8
	44 kV.	..	..	44·6	148·9
	22 kV.	317·6	790·0	5,046·7	12,869·8
	7·2, 6·6, 4·0 kV.	— 15·5	— 36·3	584·1	1,705·1
	Low tension	351·9	1,178·8	5,515·8	19,039·4
		734·7	2,174·7	12,192·7	37,901·0

UNDERGROUND CABLES.	Cable Miles.	Cable Miles.
22 kV.	1·86	152·00
11, 7·2, 6·6, 4·0 and 3·3 kV.	0·38	329·86
Pilot, telephone, and supervisory	18·37	163·04
Low tension	5·46	58·64
	26·07	703·54

SUB-STATIONS.	Number.	Capacity kVA.	Number.	Capacity kVA.
Terminal Stations	..	..	7	421,250
Switching Stations	..	..	2	18,000
Main Metropolitan Transmission Sub-stations	1	17,500	36	503,750
Distribution Sub-stations at Line Voltage	..	..	4	16,500
Branches—				
Metropolitan	33	11,045	898	244,715
Ballarat	32	1,825	182	12,280
Bendigo	14	575	138	32,205
Geelong	9	200	211	26,625
Eastern Metropolitan	35	5,055	698	33,545
Gippsland	53	2,520	923	32,010
Midland	12	1,555	288	20,620
North-Eastern	65	2,005	886	71,374
South-Western	50	8,667	1,111	45,109
Yallourn	2	450	16	2,325
	306	51,397	5,400	1,480,308

GENERATION OF ELECTRICITY.

STATE OF VICTORIA.

(a) ALL SUPPLY AUTHORITIES.

Authority.	State Electricity Commission	Melbourne City Council.	Victorian State Railways.			Melbourne Electric Supply Co. Ltd.		Electric Supply Co. of Victoria Ltd.		Local Authorities.	Total kWh. Generated State of Victoria. (millions).
Stations.	See below.	Spencer-street, Melbourne.	Newport " A."			Richmond.	Geelong.	Ballarat.	Bendigo.	Country Centres not Served by State Generating System. kWh. (millions).	
Year.	kWh. (millions).	kWh. (millions).	kWh. (millions).			kWh. (millions).	kWh. (millions).	kWh. (millions).	kWh. (millions).		
			(1).	(2).	Total.						
1924–25 ..	101·8	20·0	108·0	152·7	260·7	25·3	18·0	4·0	3·5	14·0	447·3
1925–26 ..	188·7	17·7	74·8	163·7	238·5	34·9	21·1	4·1	3·5	14·0	522·5
1926–27 ..	**284·2**	**14·6**	**27·0**	**169·1**	**196·1**	**38·1**	**30·3**	**4·4**	**3·6**	**15·0**	**586·3**
1927–28 ..	378·8	13·5	12·9	166·2	179·1	4·2	30·3	5·0	4·2	16·0	631·1
1928–29 ..	422·3	16·0	12·0	162·5	174·5	..	32·2	5·3	4·5	16·0	670·8
1929–30 ..	**461·2**	**17·1**	**11·3**	**164·7**	**176·0**	..	**27·3**	**5·1**	**4·5**	**15·0**	**706·2**
1930–31 ..	458·3	12·1	15·5	154·1	169·6	..	4·7	4·9	4·8	15·0	669·4
1931–32 ..	504·9	12·3	9·7	146·8	156·5	..	..	4·9	5·0	16·0	699·6
1932–33 ..	**549·7**	**10·0**	**10·4**	**150·2**	**160·6**	..	..	**5·2**	**5·1**	**17·0**	**747·6**
1933–34 ..	590·0	14·7	10·5	151·9	162·4	..	..	5·8	5·3	18·0	796·2
1934–35 ..	620·1	23·9	35·2	156·2	191·4	Stations acquired by State Electricity Commission.				20·0	855·4
1935–36 ..	**716·1**	**35·6**	**12·2**	**159·1**	**171·3**	..	..	..	..	**22·0**	**945·0**
1936–37 ..	769·7	33·9	14·1	162·9	177·0	..	..	..	..	23·0	1,003·6
1937–38 ..	836·1	34·7	14·5	165·2	179·7	..	..	..	..	26·0	1,076·5
1938–39 ..	**897·8**	**29·5**	**13·8**	**168·9**	**182·7**	..	..	..	..	**28·0**	**1,138·0**
1939–40 ..	1,024·2	33·3	14·5	153·7	168·2	..	..	..	..	26·0	1,251·7
1940–41 ..	1,155·1	16·9	17·2	167·4	184·6	..	..	..	..	21·0	1,377·6
1941–42 ..	**1,330·5**	Station now operated as part of State system.	**17·9**	**163·4**	**181·3**	..	..	..	..	**21·0**	**1,532·8**
1942–43 ..	1,455·4		14·6	151·5	166·1	..	..	..	..	22·0	1,643·5
1943–44 ..	1,475·6		15·2	153·8	169·0	..	..	..	..	24·0	1,668·6
1944–45 ..	**1,502·3**	..	**14·7**	**168·7**	**183·4**	..	..	..	..	**24·0**	**1,709·7**
1945–46 ..	1,594·9	..	13·0	162·8	175·8	..	..	..	..	27·0	1,797·7
1946–47 ..	1,691·0	..	15·5	164·4	179·9	..	..	..	..	29·0	1,899·9
1947–48 ..	**1,904·4**	..	**18·3**	**200·0**	**218·3**	..	..	..	..	**34·0**	**2,156·7**

(1) 25 cycle supplied to other authorities. (2) 25 cycle Railway purposes.

GENERATION OF ELECTRICITY.

STATE OF VICTORIA.

(b) STATE ELECTRICITY COMMISSION OF VICTORIA.

Station.	Yallourn.*		Newport.		Richmond.		Geelong.		Ballarat and Bendigo.		Spencer-street.		Sugarloaf–Rubicon.		Kiewa.		All Stations.	
Year.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW. Coincident.
	Operation commenced 15.6.24		Operation commenced 12.10.23		Station acquired and reconditioned. Restarted 6.5.29		Station acquired 1.9.30		Stations acquired 1.7.34 Bendigo closed down 31.12.37		Station operated as part of State system from 1.1.41		Operation commenced 14.3.28		Operation commenced 1.9.44			
1924–25	48·4	29,000	53·4	15,800	..	..	..	..	..	..	..	..	..	..	..	..	101·8	40,500
1925–26	142·7	37,500	46·0	16,800	..	..	..	..	..	..	..	..	..	..	..	..	188·7	50,000
1926–27	**238·8**	**61,000**	**45·4**	**19,800**	..	..	..	..	..	..	..	..	..	..	..	..	**284·2**	**76,000**
1927–28	319·7	68,500	54·3	20,800	..	..	..	..	..	..	..	..	4·8	11,500	..	..	378·8	87,500
1928–29	304·5	64,000	49·0	20,000	3·5	15,000	..	..	..	..	..	..	65·3	16,310	..	..	422·3	95,500
1929–30	**310·6**	**62,500**	**50·8**	**21,000**	**21·9**	**16,200**	..	..	..	..	..	..	**77·9**	**19,300**	..	..	**461·2**	**103,160**
1930–31	251·9	63,000	38·4	19,800	26·6	15,520	20·5	5,570	..	..	..	..	120·9	23,100	..	..	458·3	109,013
1931–32	320·1	80,000	9·8	18,800	25·7	15,000	26·9	6,510	..	..	..	..	122·4	23,400	..	..	504·9	116,959
1932–33	**386·2**	**88,500**	**2·8**	**14,400**	**22·5**	**15,360**	**27·1**	**6,560**	..	..	..	..	**111·1**	**23,400**	..	..	**549·7**	**123,404**
1933–34	429·3	95,000	7·6	18,500	22·6	15,120	29·5	6,690	..	..	..	..	101·0	22,800	..	..	590·0	127,621
1934–35	310·8	94,000	54·0	18,200	56·5	15,500	30·8	6,980	12·7	3,711	..	..	155·3	25,300	..	..	620·1	141,993
1935–36	**487·6**	**107,500**	**16·7**	**19,300**	**29·8**	**15,100**	**34·1**	**7,930**	**13·2**	**3,825**	..	..	**134·7**	**25,400**	..	..	**716·1**	**158,862**
1936–37	531·2	122,500	27·2	19,000	25·3	15,400	32·1	7,930	12·5	3,750	..	..	141·4	25,490	..	..	769·7	173,300
1937–38	654·8	140,500	27·1	18,600	24·2	15,300	34·4	8,620	10·0	3,797	..	..	85·6	25,090	..	..	836·1	181,847
1938–39	**696·6**	**136,500**	**23·9**	**19,600**	**26·7**	**15,200**	**38·0**	**9,230**	**9·4**	**2,716**	..	..	**103·2**	**24,300**	..	..	**897·8**	**198,000**
1939–40	776·1	168,000	39·3	35,000	16·2	15,400	31·5	7,710	11·6	2,988	..	..	149·5	25,400	..	..	1,024·2	218,600
1940–41	939·5	171,500	44·6	45,300	21·2	15,360	21·7	10,050	14·3	3,820	16·0	26,000	97·8	20,800	..	..	1,155·1	261,820
1941–42	**1,027·3**	**187,500**	**45·2**	**54,800**	**35·2**	**15,540**	**30·7**	**10,600**	**14·6**	**4,140**	**44·1**	**35,000**	**133·4**	**25,600**	..	..	**1,330·5**	**297,696**
1942–43	1,110·1	186,000	45·8	63,000	38·6	15,600	34·3	11,800	15·0	5,960	55·4	33,000	156·2	26,100	..	..	1,455·4	319,300
1943–44	1,088·0	188,000	83·3	71,600	44·5	15,600	44·8	12,200	20·8	5,400	63·8	40,650	130·4	25,700	..	..	1,475·6	328,000
1944–45	**1,133·2**	**187,000**	**92·1**	**89,500**	**40·2**	**15,530**	**38·8**	**11,200**	**18·9**	**5,000**	**59·3**	**35,070**	**101·1**	**25,500**	**18·7**	**24,000**	**1,502·3**	**351,600**
1945–46	1,136·7	190,500	136·9	93,500	33·1	15,600	31·2	11,900	16·0	5,350	55·0	34,200	134·3	25,650	51·4	26,000	†1,594·9	377,100
1946–47	1,180·6	185,000	181·6	88,000	23·5	15,520	26·9	11,800	18·0	5,150	51·1	29,820	144·7	25,850	61·5	26,700	†1,691·0	364,750
1947–48	**1,223·9**	**195,500**	**299·0**	**134,000**	**29·6**	**15,400**	**33·1**	**11,750**	**18·8**	**5,650**	**66·3**	**34,500**	**161·8**	**25,850**	**68·3**	**26,400**	**†1,904·4**	**449,500**

* Including electricity transferred from Briquette Factory.

† Includes generation at Hamilton and Warburton (latter closed down 16.8.47.)

By Authority: J. J. Gourley, Government Printer, Melbourne.

STATE ELECTRICITY COMMISSION OF VICTORIA

ELECTRICITY SUPPLY

GENERATION
TRANSMISSION
H.V. DISTRIBUTION